

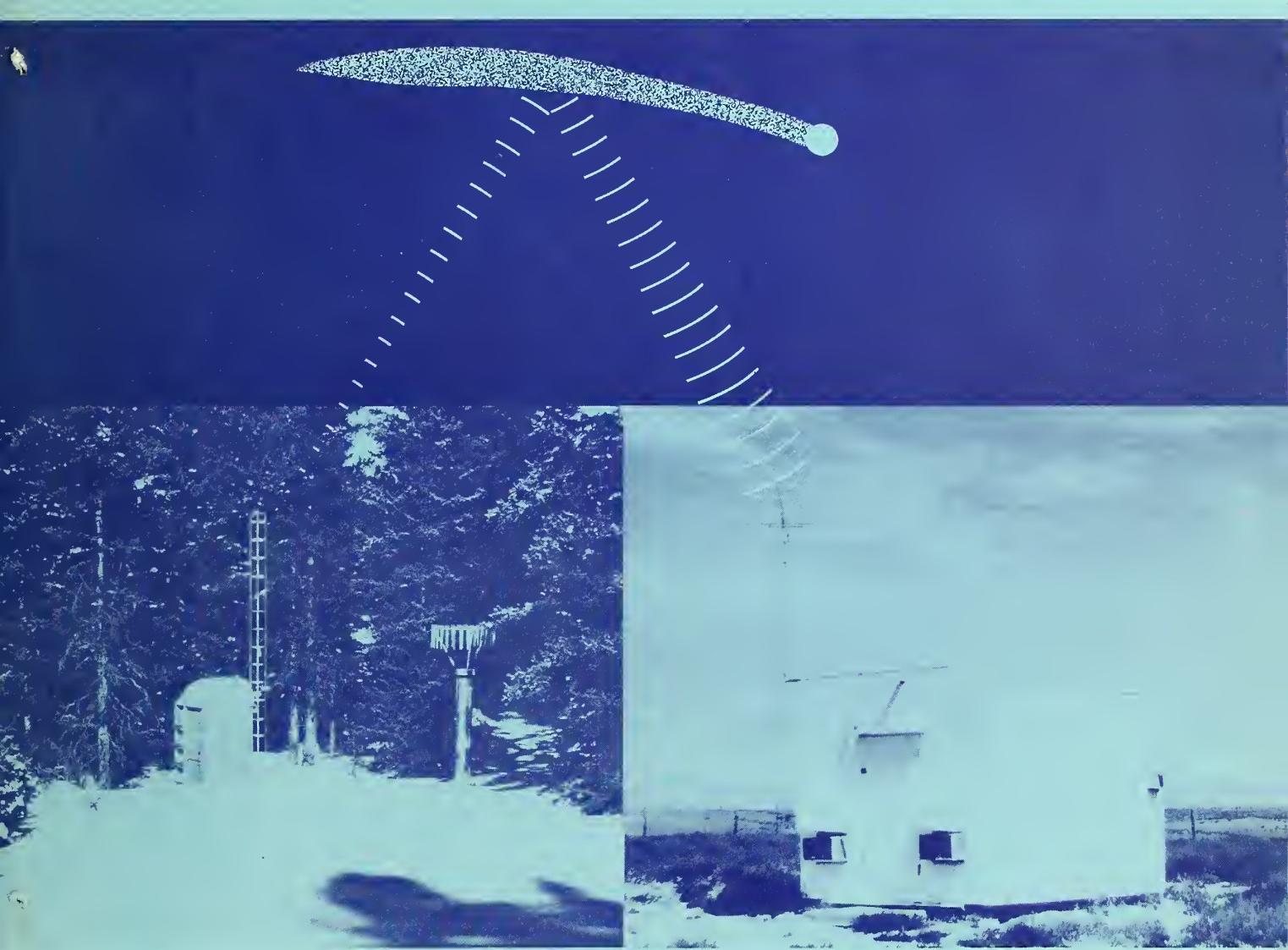
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Do not assume content reflects current scientific knowledge, policies, or practices.



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# WATER SUPPLY OUTLOOK FOR WYOMING



U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE  
Collaborating with  
STATE ENGINEER of WYOMING

AS OF  
FEB. 1, 1978

Data included in this report were obtained by the agencies named above in cooperation  
with Federal, State and private organizations listed inside the back cover of this report.

## TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

*COVER PHOTO: SOME OF THE DATA IN THIS REPORT HAVE BEEN RECEIVED THROUGH THE SOIL CONSERVATION SERVICE'S NEW SNOTEL SYSTEM WHICH TRANSMITS INFORMATION VIA THE SPACE AGED METEOR BURST METHOD FROM DATA SITES TO MASTER STATIONS LIKE THESE.*

### PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

| STATE              | ADDRESS   |
|--------------------|---|
| Alaska             | Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504  |
| Arizona            | Room 3008, Federal Building, Phoenix, Arizona 85025                 |
| Colorado (N. Mex.) | P. O. Box 17107, Denver, Colorado 80217                             |
| Idaho              | Room 345, 304 N. 8th. St., Boise, Idaho 83702                       |
| Montana            | P. O. Box 98, Bozeman, Montana 59715                                |
| Nevada             | P. O. Box 4850, Reno Nevada 89505                                   |
| Oregon             | 1220 S.W. Third Ave., Portland, Oregon 97204                        |
| Utah               | 4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138 |
| Washington         | 360 U.S. Court House, Spokane, Washington 99201                     |
| Wyoming            | P. O. Box 2440, Casper, Wyoming 82602                               |

### PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P.O. Box 388, Sacramento, California 95802 --- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 --- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 --- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta T3C 1A6.



# **WATER SUPPLY OUTLOOK FOR WYOMING**

and  
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

*Issued by*

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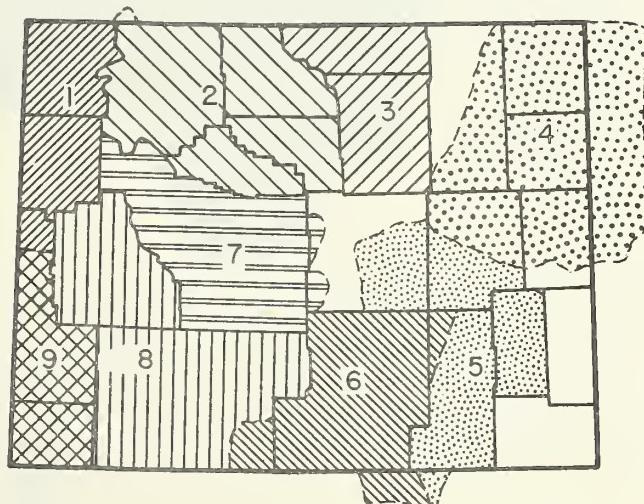
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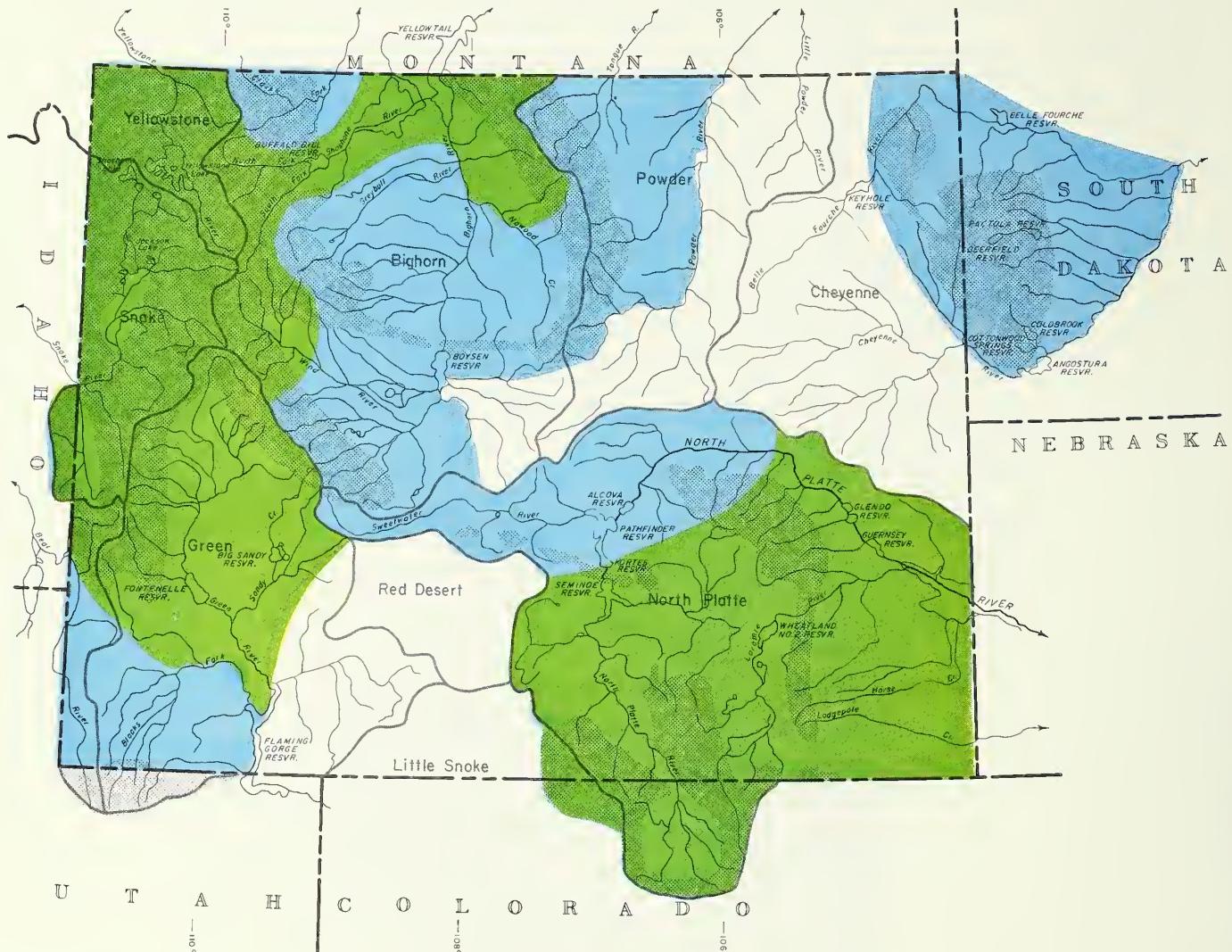


WATERSHED AREA LOCATIONS

# PROSPECTIVE WATER SUPPLIES FOR WYOMING SPRING AND SUMMER PERIOD

February 1, 1978

50 0 50 MILES  
SCALE 1 : 4,250,000



FORECAST STREAM FLOW  
in Percent of 1958-1972 Year Average

- Below 80%
- 80% - 120%
- Above 120%
- Not Forecast or Non-Irrigated
- Mountain Areas





### Typical Wyoming SNOTEL site.

WYOMING SUMMARY  
as of  
FEBRUARY 1, 1978

SNOWPACK

With 60 percent of the snow accumulation period lapsed, the snowpack ranges from near average in the northeast portion of the state to 50 percent above normal in the northwest and southeast mountains. Many areas have 5 or 6 times as much snow this year as the same time last year. The only low spot in the state is the Greybull drainage with half the normal amount--but that is still 40 percent more than last year.

### PRECIPITATION

Precipitation at lower elevations has been up to 50 percent above normal for the winter season in the northeast quarter and western border areas of the state with normal or slightly below normal precipitation totals elsewhere. The only really dry areas with less than one-half the normal precipitation totals at this point in the season are the Laramie-Wheatland area in the southeast and a small area of the Bighorn basin in the shadow of the Owl Creek Mountains.

### STREAMFLOW

If the state receives normal amounts of precipitation during the spring months, average to excellent streamflow volumes can be expected throughout the state. Volume forecasts for the spring and summer months range from slightly above average in the Powder, Bighorn and Lower Green River basins to 30-50 percent above normal in the North Platte, Snake, Upper Green and Wind River basins.

### RESERVOIR STORAGE

Carryover storage in many of the larger reservoirs in the state is below normal. Palisades is currently 66 percent below the February 1 average. Storage in the Wind, Bighorn and North Platte systems is slightly above normal.

# WATER SUPPLY OUTLOOK FOR THE CONSERVATION DISTRICTS IN THE SNAKE, MADISON AND UPPER YELLOWSTONE RIVER WATERSHEDS IN WYOMING

FEBRUARY 1, 1978



LOCATION MAP

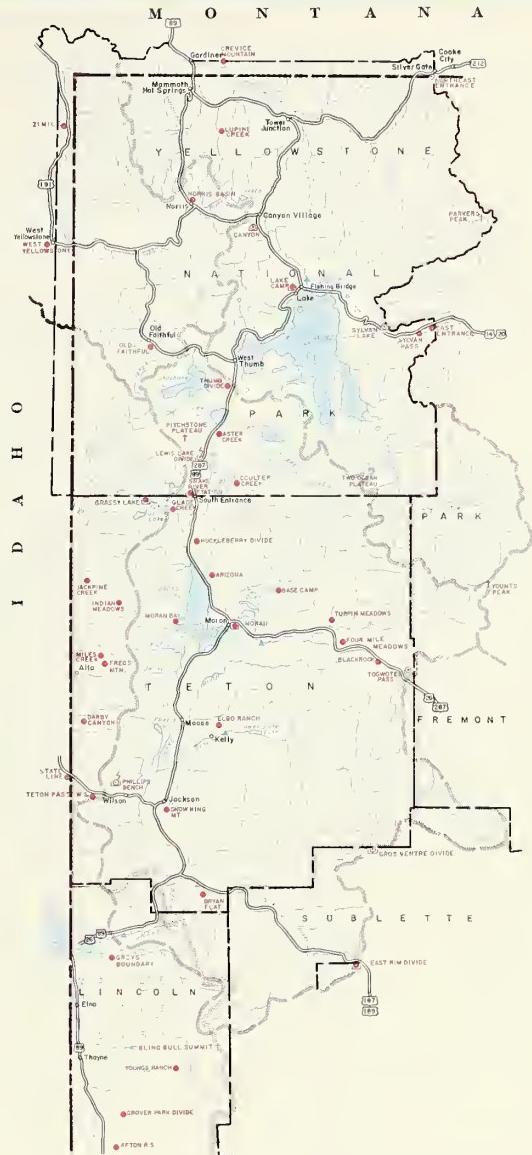


**LEGEND**

- SNOWTEL
- Snow Course
- Snow Sensor
- † Aerial Marker (A)
- △ Storage Precipitation Gage (P)
- ▲ Stream Gaging Station
- Drainage
- Highway
- Conservation District Boundary
- Watershed Boundary

10 0 10 20 MILES

SCALE 1:1,615,000



## YOUR WATER SUPPLY

FEBRUARY 1 SNOWPACK IS EXCELLENT THROUGHOUT THIS REGION (128% TO 171% OF NORMAL). WITH CONTINUED NORMAL SNOWFALLS DURING THE REMAINDER OF THE WINTER, SUMMER STREAMFLOW WILL BE GENERALLY ABOUT 130% OF AVERAGE. RESERVOIR STORAGE, DEPLETED BY LAST SUMMER'S LOW STREAMFLOWS, REMAINS AS LOW AS 66% BELOW NORMAL AT PALISADES RESERVOIR.

# SNAKE, MADISON AND UPPER YELLOWSTONE RIVER WATERSHEDS

## STREAMFLOW FORECASTS

| BASIN, STREAM and/or FORECAST POINT          | THIS YEAR                         |                       | PAST RECORD        |                    |
|--|-----------------------------------|-----------------------|--------------------|--------------------|
|  | FORECAST<br>Thousand<br>Acre Feet | Percent of<br>Average | FORECAST<br>PERIOD | THOUSAND ACRE FEET |
|  |                                   |                       | Last Year **       | Average +          |
| Yellowstone River at Yellowstone Lake Outlet | 950                               | 116                   | Apr-Sept           | 387                |
| Snake River near Moran (1)                   | 1120                              | 131                   | Apr-Sept           | 340                |
| Snake River above Palisades near Alpine (1)  | 3480                              | 133                   | Apr-Sept           | 1037               |
| Snake River at Heise (2)                     | 5200                              | 132                   | Apr-Sept           | 1494               |
| Pacific Creek at Moran                       | 234                               | 138                   | Apr-Sept           | --                 |
| Greys River above Palisades                  | 550                               | 142                   | Apr-Sept           | 90                 |
| Salt River above Palisades near Etna         | 500                               | 137                   | Apr-Sept           | 121                |
| Palisades Reservoir Inflow (1)               | 4900                              | 133                   | Apr-Sept           | 1031               |
| Swift Creek near Afton                       | - Not forecast -                  |                       | May-Sept           | --                 |
|  |                                   |                       |                    | 45                 |

(1) Observed flow plus change in storage in Jackson Lake.

(2) Observed flow plus change in storage in Jackson Lake and Palisades Reservoir.

\* Measured flows for last year are U.S. Geological Survey provisional figures subject to revision.

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

| RIVER BASIN<br>and/or<br>SUB-WATERSHED | Number of<br>Courses<br>Averaged | THIS YEAR'S SNOW<br>WATER AS PERCENT OF |           |
|--|----------------------------------|---|-----------|
|  |                                  | Last Year                               | Average + |
| Madison (Wyo. only)                    | 4                                | 363                                     | 130       |
| Yellowstone (Wyo. only)                | 6                                | 384                                     | 128       |
| Snake ab. Jackson Lake                 | 8                                | 463                                     | 140       |
| Pacific Creek                          | 2                                | 419                                     | 148       |
| Buffalo Creek                          | 5                                | 351                                     | 150       |
| Gros Ventre River                      | 3                                | 357                                     | 135       |
| Hoback River                           | 5                                | 262                                     | 143       |
| Greys River                            | 3                                | 515                                     | 168       |
| Salt River                             | 5                                | 469                                     | 171       |

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

| RESERVDIR    | Usable<br>Capacity | Usable Storage |              |           |
|--------------|--------------------|----------------|--------------|-----------|
|              |                    | This<br>Year   | Last<br>Year | Average + |
| Grassy Lake  | 15.1               | 8.5            | 10.6         | 10.0      |
| Jackson Lake | 847.0              | 307.4          | 586.0        | 540.9     |
| Palisades    | 1200.0             | 263.2          | 1026.4       | 782.1     |

+ 1958-1972 period.

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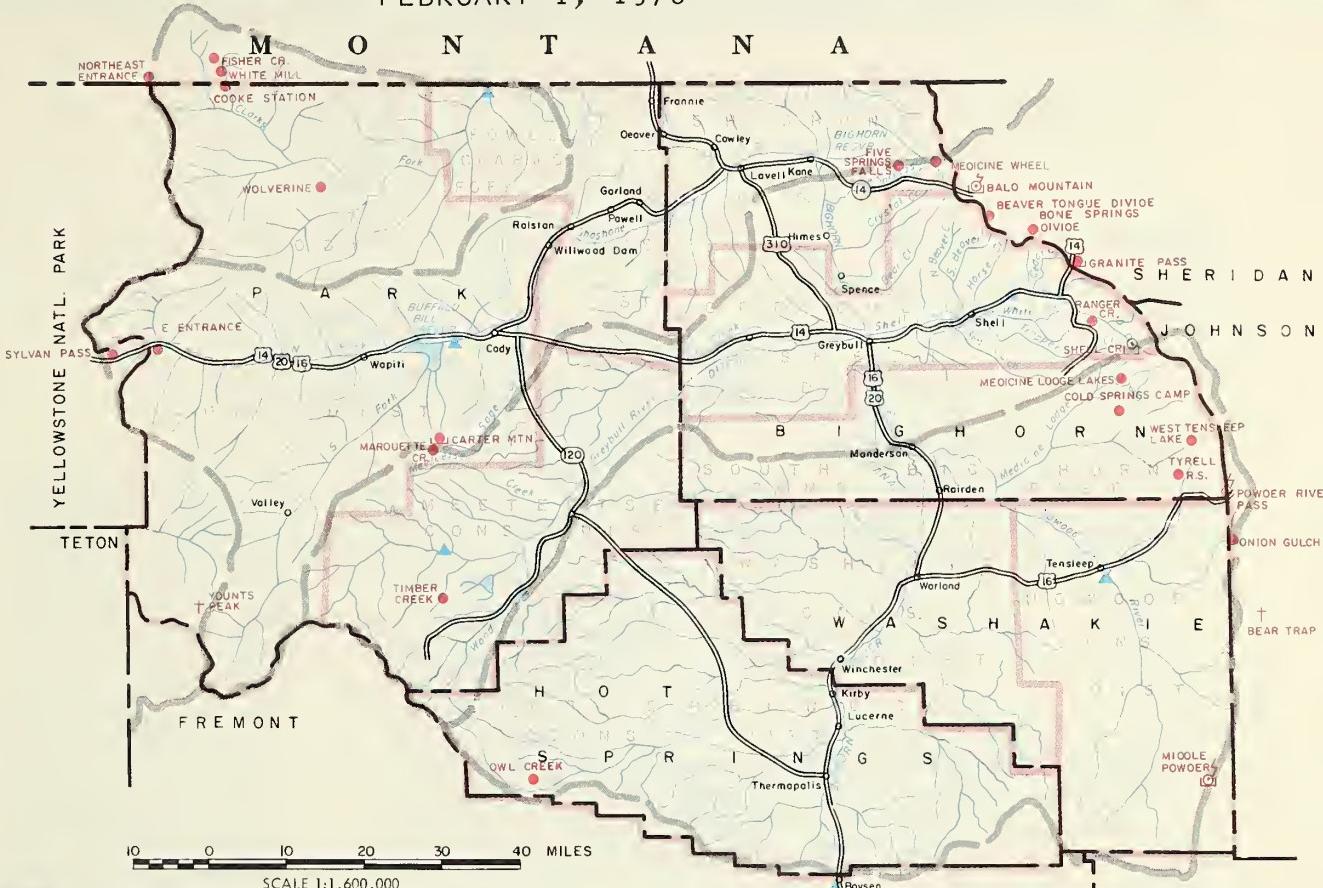


# FIRST CLASS MAIL

"The Conservation of Water begins with the Snow Survey"

# WATER SUPPLY OUTLOOK FOR THE CONSERVATION DISTRICTS IN THE BIGHORN BASIN IN WYOMING

FEBRUARY 1, 1978



SCALE 1:1,600,000



LOCATION MAP

## LEGEND

- |   |                                |               |                                |
|---|--------------------------------|---------------|--------------------------------|
| ● | Snow Course                    | - - -         | Drainage                       |
| ○ | Snow Sensor                    | — — —         | Highway                        |
| + | Aerial Marker (A)              | — — — — —     | Conservation District Boundary |
| □ | Storage Precipitation Gage (P) | — — — — — — — | Watershed Boundary             |
| ▲ | Stream Gaging Station          |               |                                |
| ⚡ | SNOTEL                         |               |                                |

## YOUR WATER SUPPLY

VERY GOOD FEBRUARY 1 SNOW WATER CONTENTS HAVE BEEN MEASURED IN MOST OF THE BASIN. GREYBULL RIVER SNOWPACK IS BELOW NORMAL BUT ALL OTHERS RANGE FROM 130 TO 151 PERCENT OF NORMAL. NEAR AVERAGE STREAMFLOWS DURING THE SUMMER ARE EXPECTED FOR THE GREYBULL AND TENSELEEP DRAINAGES, WHILE OTHERS ARE AS HIGH AS 126% OF AVERAGE ON THE SHOSHONE RIVER. RESERVOIR STORAGE IS NEAR NORMAL.

# BIGHORN BASIN

## STREAMFLOW FORECASTS

| BASIN, STREAM and/or FORECAST POINT       | THIS YEAR             |                       | PAST RECORD        |           |
|---|-----------------------|-----------------------|--------------------|-----------|
|   | FORECAST              |                       | THOUSAND ACRE FEET |           |
|   | Thousand<br>Acre Feet | Percent of<br>Average | Last Year **       | Average + |
| Wind River below Boysen (1)               | 1160                  | 115                   | Apr-Sept           | 479 1006  |
| Tensleep Creek near Tensleep              | 76                    | 96                    | Apr-Sept           | - 79      |
| Medicine Lodge Creek near Hyattville      | 26                    | 124                   | Apr-Sept           | - 21      |
| Shell Creek near Shell                    | 85                    | 116                   | Apr-Sept           | 55 73     |
| Greybull River at Meeteetse               | 220                   | 105                   | Apr-Sept           | 134 209   |
| Shoshone River below Buffalo Bill Dam (2) | 1040                  | 126                   | Apr-Sept           | 381 827   |
| Clarks Fork near Belfry                   | 715                   | 118                   | Apr-Sept           | - 607     |

(1) Observed flow plus change in storage in Bull Lake, Pilot Butte and Boysen Reservoirs; plus diversion to Wyoming Canal.

(2) Observed flow plus change in storage in Buffalo Bill Reservoir and diversion to Heart Mountain Canal.

\*\* Measured flows for last year are U.S. Geological Survey provisional figures subject to revision.

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

| RIVER BASIN<br>and/or<br>SUB-WATERSHED | Number of<br>Courses<br>Averaged | THIS YEAR'S SNOW<br>WATER AS PERCENT OF |           | Last Year | Average + |
|--|----------------------------------|---|-----------|-----------|-----------|
|  |                                  | This Year                               | Last Year |           |           |
| Clarks Fork                            | 3                                | 244                                     | 140       |           |           |
| Shoshone                               | 4                                | 315                                     | 151       |           |           |
| Nowood                                 | 4                                | 172                                     | 130       |           |           |
| Shell                                  | 4                                | 160                                     | 131       |           |           |
| Greybull                               | 2                                | 141                                     | 58        |           |           |

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

| RESERVOIR      | Usable<br>Capacity | Usable Storage |              |           |
|----------------|--------------------|----------------|--------------|-----------|
|                |                    | This<br>Year   | Last<br>Year | Average + |
| Boysen         | 549.9              | 295.8          | 313.6        | 289.0     |
| Buffalo Bill   | 373.1              | 152.0          | 170.0        | 164.7     |
| Bighorn        | 1356.0             | 899.4          | 905.6        | 792.5     |
| Upper Sunshine | 53.0               | - No Report -  | -            | -         |
| Lower Sunshine | 58.9               | - No Report -  | -            | -         |

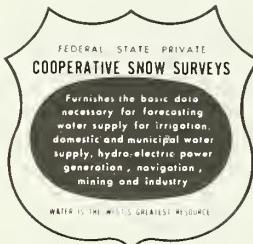
## SNOW

| DRAINAGE BASIN and/or SNOW COURSE | Date of<br>Survey | Snow Depth<br>(In.) | Water Cont.<br>(In.) | PAST REC |       |
|-----------------------------------|-------------------|---------------------|----------------------|----------|-------|
|                                   |                   |                     |                      | Last Yr. | Ave + |
| Bald Mountain                     | 2/01              | 76                  | 19.6                 | 16.1     | 14.6  |
| Bear Trap Aerial                  | 2/02              | 35                  | 8.8                  | 6.0      | 6.5   |
| Bone Spring Divide                | 2/01              | 56                  | 14.6                 | 11.1     | 12.2  |
| Carter Mountain                   | 1/30              | 11                  | 2.2                  | 1.8      | 3.0   |
| Cooke Station                     | 1/27              | 72                  | 21.4                 | 8.6      | -     |
| East Entrance                     | 1/31              | 42                  | 12.2                 | 2.9      | 7.1   |
| Fisher Creek                      | 1/27              | 103                 | 32.8                 | 15.1     | 24.8  |
| Five Springs Falls                | 1/31              | 33                  | 7.6                  | 7.1      | 5.4   |
| Marquette Creek                   | 1/30              | 15                  | 2.6                  | 2.6      | -     |
| Medicine Lodge Lakes              | 2/02              | 46                  | 12.3                 | 6.4      | 7.8   |
| Middle Powder                     | 1/31              | 24                  | 5.9                  | 6.2      | 7.3   |
| Northeast Entrance                | 1/27              | 41                  | 10.6                 | 4.0      | 6.6   |
| Onion Gulch                       | 2/03              | 35                  | 8.9                  | 4.2      | 6.4   |
| Owl Creek                         | 1/28              | 13                  | 2.1                  | 1.8      | 3.6   |
| Powder River Pass                 | 2/02              | 44                  | 11.4                 | 5.8      | -     |
| Ranger Creek                      | 2/02              | 38                  | 8.9                  | 4.4      | 7.0   |
| Shell Creek                       | 2/02              | 54                  | 14.5                 | 4.4      | 10.3  |
| Sylvan Pass                       | 1/31              | 50                  | 14.4                 | 3.8      | 9.4   |
| Timber Creek                      | 1/28              | 5                   | 0.9                  | 0.4      | 2.3   |
| Tyrell R.S.                       | 2/02              | 37                  | 8.6                  | 4.0      | 5.9   |
| White Mill                        | 1/27              | 79                  | 25.6                 | 10.8     | -     |
| Wolverine                         | 1/29              | 43                  | 13.0                 | 4.0      | -     |
| Younts Peak Aerial                | De 1 a y e d      |                     |                      | 5.0      | -     |

+ 1958-1972 period

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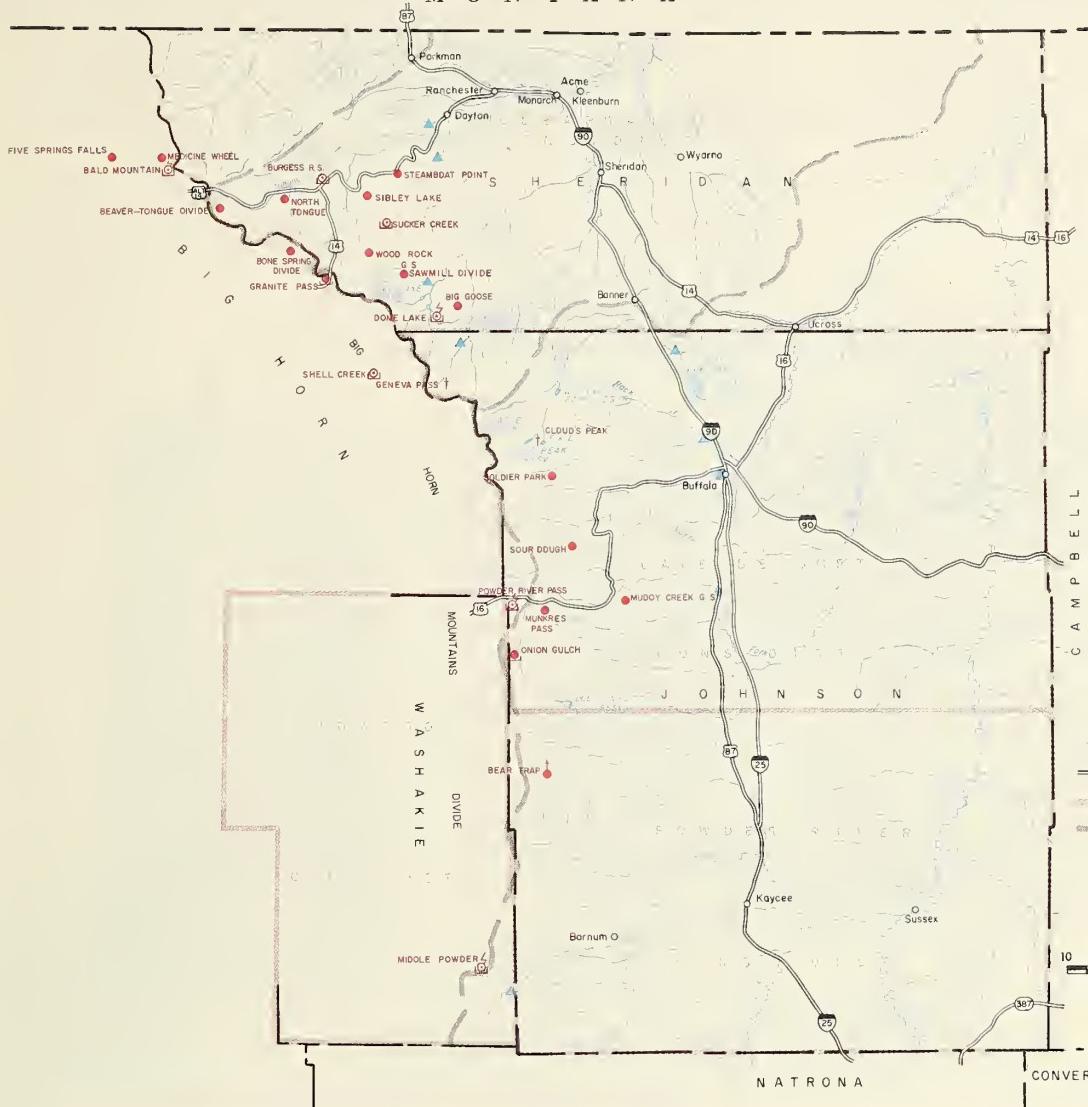
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"The Conservation of Water begins with the Snow Survey"

# WATER SUPPLY OUTLOOK FOR THE CONSERVATION DISTRICTS IN THE POWDER AND TONGUE WATERSHEDS IN WYOMING

FEBRUARY 1, 1978

## M O N T A N A



LOCATION MAP



### LEGEND

- SNOTEL
- Snow Course
- Snow Sensor
- † Aerial Marker (A)
- Storage Precipitation Gage (P)
- ▲ Stream Gaging Station
- Drainage
- Highway
- Conservation District Boundary
- Watershed Boundary

SCALE 1:1,250,000

## YOUR WATER SUPPLY

SPRING AND SUMMER STREAMFLOWS ARE FORECAST A LITTLE ABOVE NORMAL (106 TO 110 PERCENT). SNOWPACK ACCUMULATIONS ARE GOOD RANGING FROM 108% (POWDER RIVER) TO 130% OF THE FEBRUARY 1 AVERAGE FOR CRAZY WOMAN CREEK. THE TONGUE RIVER IS EXPECTED TO FLOW AT 112% OF NORMAL.

# POWDER AND TONGUE RIVER WATERSHEDS

## STREAMFLOW FORECASTS

| BASIN, STREAM and/or FORECAST POINT   | THIS YEAR             |                       |                 | PAST RECORD        |           |
|---------------------------------------|-----------------------|-----------------------|-----------------|--------------------|-----------|
|                                       | FORECAST              |                       | FORECAST PERIOD | THOUSAND ACRE FEET |           |
|                                       | Thousand<br>Acre Feet | Percent of<br>Average |                 | Last Year          | Average + |
| Tongue River near Dayton              | 120                   | 106                   | Apr-Sept        | 107                | 113       |
| Middle Fork Powder River near Barnum  | - Not forecast -      |                       | Apr-Sept        | ---                | 23*       |
| North Fork Powder River near Hazelton | 11                    | 110                   | Apr-Sept        | 7.7                | 10        |
| Clear Creek near Buffalo              | - Not forecast -      |                       | Apr-Sept        | 25.4               | 36        |
| Rock Creek near Buffalo               | - Not forecast -      |                       | Apr-Sept        | ---                | 23        |
| Piney Creek at Kearny                 | - Not forecast -      |                       | Apr-Sept        | ---                | 49        |

\* Measured flows for last year are U.S. Geological Survey provisional figures subject to revision.

+ Less than 15 years of record.

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

| RIVER BASIN<br>and/or<br>SUB-WATERSHED | Number of<br>Courses<br>Averaged | THIS YEAR'S SNOW<br>WATER AS PERCENT OF |           |
|--|----------------------------------|---|-----------|
|  |                                  | Last Year                               | Average + |
| Tongue River                           | 5                                | 112                                     | 112       |
| Goose Creek                            | 3                                | 210                                     | 120       |
| Clear Creek                            | 2                                | 369                                     | 113       |
| Crazy Woman Creek                      | 2                                | 255                                     | 130       |
| Powder River                           | 2                                | 142                                     | 108       |

## RESERVOIR STORAGE (Thousands Ac. Ft.) END OF MONTH

| RESERVOIR | Usable<br>Capacity | Usable Storage |              |           |
|-----------|--------------------|----------------|--------------|-----------|
|           |                    | This<br>Year   | Last<br>Year | Average + |
|           |                    |                |              |           |

## SNOW

| DRAINAGE BASIN and/or SNOW COURSE | Date of<br>Survey | THIS YEAR              |                         | PAST REC.                    |             |
|-----------------------------------|-------------------|------------------------|-------------------------|------------------------------|-------------|
|                                   |                   | Snow<br>Depth<br>(In.) | Water<br>Cont.<br>(In.) | Water<br>Content<br>(inches) | Last<br>Yr. |
| Bald Mountain                     | 2/01              | 76                     | 19.6                    | 16.1                         | 14.6        |
| Bear Trap Aerial                  | 2/02              | 35                     | 8.8                     | 6.0                          | 6.5         |
| Big Goose                         | 2/02              | 24                     | 4.6                     | 3.9                          | 4.8         |
| Bone Spring Divide                | 2/01              | 56                     | 14.6                    | 11.1                         | 12.2        |
| Burgess R.S.                      | 2/01              | 27                     | 5.4                     | 6.2                          | 5.1         |
| Cloud Peak Aerial                 | 2/02              | 25                     | 6.0                     | 3.8                          | 6.5         |
| Dome Lake                         | 2/02              | 29                     | 6.9                     | 4.1                          | 6.5         |
| Five Springs Falls                | 1/31              | 33                     | 7.6                     | 7.1                          | 5.4         |
| Geneva Pass Aerial                | 2/02              | 51                     | 11.7                    | 8.6                          | 11.4        |
| Middle Powder                     | 1/31              | 24                     | 5.9                     | 6.2                          | 7.3         |
| Muddy Creek G.S.                  | 1/31              | 15                     | 3.1                     | 0.5                          | 2.8         |
| North Tongue                      | 2/01              | 38                     | 9.6                     | 9.2                          | 9.1         |
| Onion Gulch                       | 2/03              | 35                     | 8.9                     | 4.2                          | 6.4         |
| Powder River Pass                 | 2/02              | 44                     | 11.4                    | 5.8                          | -           |
| Sawmill Divide                    | 2/02              | 40                     | 9.3                     | 7.9                          | -           |
| Shell Creek                       | 2/02              | 54                     | 14.5                    | 4.4                          | 10.3        |
| Soldier Park                      | 2/02              | 22                     | 4.9                     | 1.6                          | 4.0         |
| Sour Dough                        | 1/31              | 22                     | 4.7                     | 1.0                          | 4.5         |
| Steamboat Point                   | 2/01              | 27                     | 6.2                     | 4.9                          | 5.2         |
| Sucker Creek                      | 2/01              | 39                     | 8.6                     | 8.2                          | 8.1         |
| Woodrock G.S.                     | - No Report -     |                        | 6.9                     | 7.1                          |             |

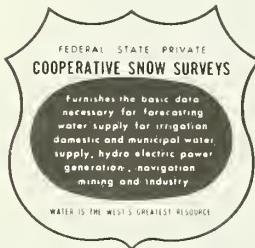
A - Aerial stadia marker. Water content estimated. + 1958-1972 period

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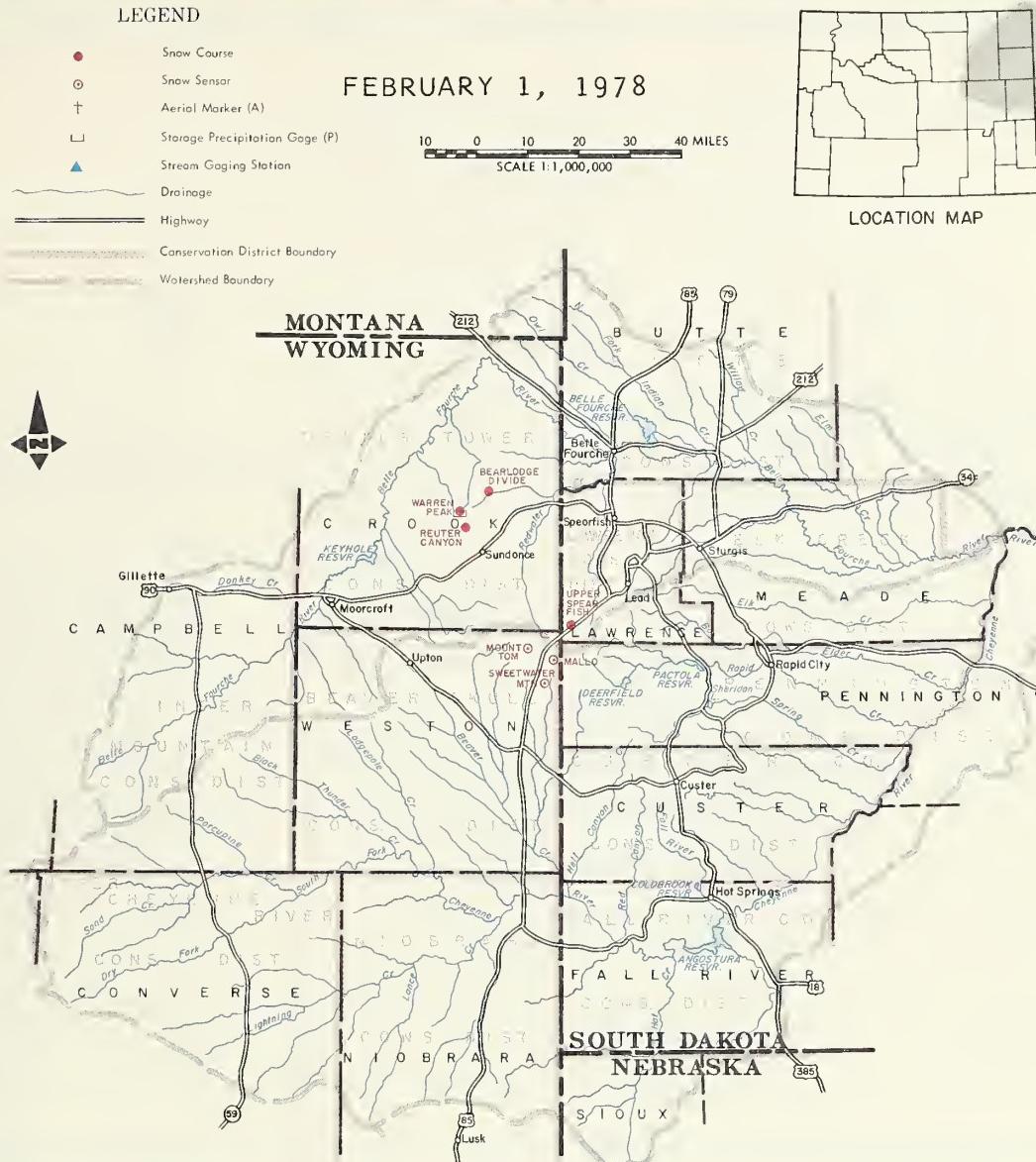
AGR-101



# FIRST CLASS MAIL

"The Conservation of Water begins with the Snow Survey"

**WATER SUPPLY OUTLOOK  
FOR THE CONSERVATION DISTRICTS IN THE  
BELLE FOURCHE AND CHEYENNE RIVER WATERSHEDS  
IN WYOMING AND SOUTH DAKOTA**



SNOW WATER ACCUMULATIONS AVERAGE 95% OF THE USUAL FEBRUARY 1 AMOUNT. SPRING AND SUMMER STREAMFLOWS ARE EXPECTED TO BE NEAR AVERAGE. RESERVOIR STORAGE AVERAGES 109% WITH ANGOSTURA LOW AT 51% AND KEYHOLE HIGHEST AT 144%.

# BELLE FOURCHE AND CHEYENNE RIVER WATERSHEDS

## STREAMFLOW FORECASTS

| BASIN, STREAM and/or FORECAST POINT | THIS YEAR                         |                       | PAST RECORD        |                                 |           |
|-------------------------------------|-----------------------------------|-----------------------|--------------------|---------------------------------|-----------|
|                                     | FORECAST<br>Thousand<br>Acre Feet | Percent of<br>Average | FORECAST<br>PERIOD | THOUSAND ACRE FEET<br>Last Year | Average + |
| - No forecasts for this area -      |                                   |                       |                    |                                 |           |

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

| RIVER BASIN<br>and/or<br>SUB-WATERSHED | Number of<br>Courses<br>Averaged | THIS YEAR'S SNOW<br>WATER AS PERCENT OF |           |
|--|----------------------------------|---|-----------|
|  |                                  | Last Year                               | Average + |
| Belle Fourche                          | 4                                | 73                                      | 95        |

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

| RESERVOIR     | Usable<br>Capacity | Usable Storage |              |           |
|---------------|--------------------|----------------|--------------|-----------|
|               |                    | This<br>Year   | Last<br>Year | Average + |
| Keyhole       | 190.4              | 102.8          | 121.9        | 71.4      |
| Belle Fourche | 185.2              | 85.7           | 57.7         | 88.4      |
| Angostura     | 86.2               | 26.8           | 38.9         | 52.3      |
| Deerfield     | 15.1               | 15.2           | 14.3         | 10.7      |
| Pactola       | 55.0               | 48.2           | 52.8         | 38.5      |
| Shadehill     | 81.5               | 61.6           | 61.0         | 49.7      |

## SNOW

| DRAINAGE BASIN and/or SNOW COURSE | THIS YEAR            |                        | PAST REC.               |  |       |
|-----------------------------------|----------------------|------------------------|-------------------------|--|-------|
|                                   | Date<br>of<br>Survey | Snow<br>Depth<br>(In.) | Water<br>Cont.<br>(In.) | Water Content<br>(inches)<br>Last<br>Yr. | Ave.+ |
| Bearlodge Divide                  | 1/31                 | 13                     | 3.4                     | 4.0                                      | 2.3   |
| Mallo Pillow                      | 1/29                 | 23                     | 4.6                     | 5.6                                      | -     |
| Mount Tom Pillow                  | - No Report          | -                      | 6.2                     | -  | -     |
| Reuter Canyon                     | 2/01                 | 26                     | 6.4                     | 8.8                                      | 6.6   |
| Sweetwater Pillow                 | - No Report          | -                      | 5.1                     | -  | -     |
| Upper Spearfish                   | 1/31                 | 22                     | 3.7                     | 6.6                                      | 4.6   |
| Warren Peak                       | 2/01                 | 23                     | 5.5                     | 6.5                                      | 6.6   |

+

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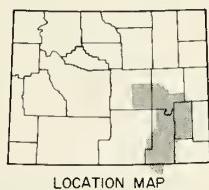


# FIRST CLASS MAIL

"The Conservation of Water begins with the Snow Survey"

# WATER SUPPLY OUTLOOK FOR THE CONSERVATION DISTRICTS IN THE LOWER NORTH PLATTE RIVER WATERSHED IN WYOMING

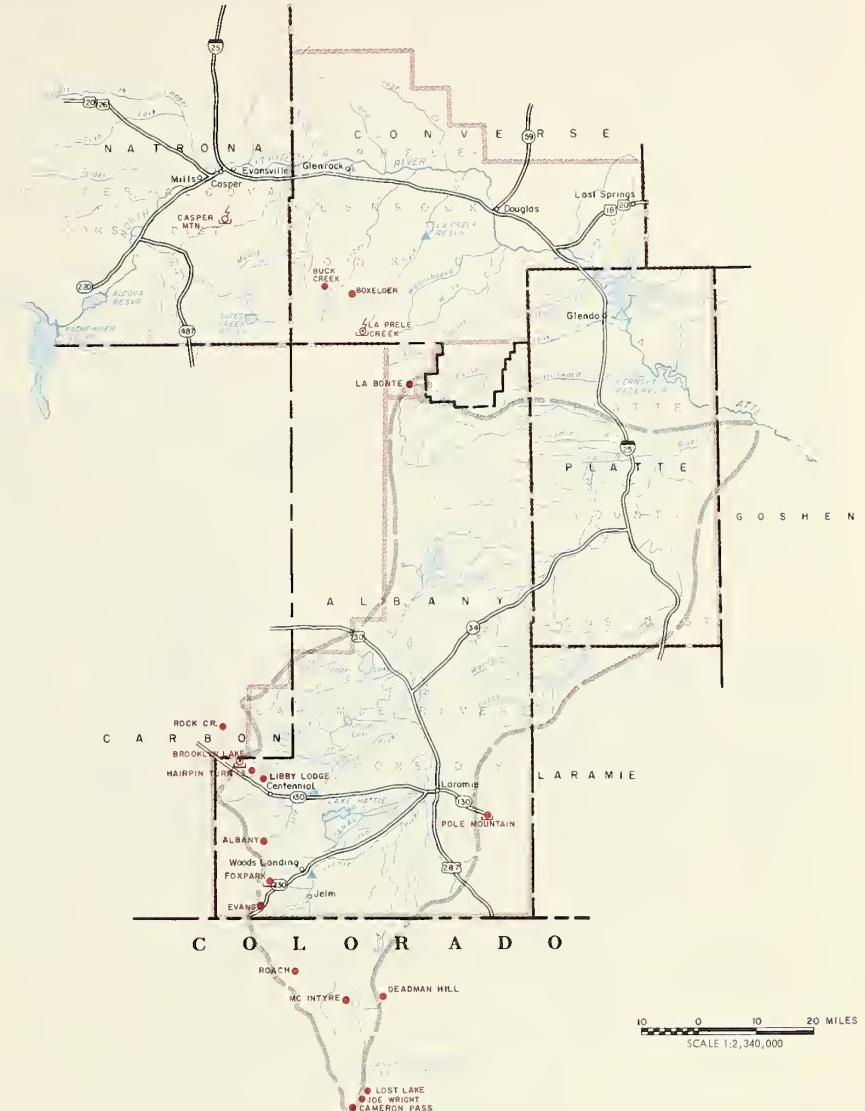
FEBRUARY 1, 1978



LOCATION MAP



- LEGEND**
- ◆ SNOTEL
  - Snow Course
  - Snow Sensor
  - Storage Precipitation Gage (P)
  - ▲ Stream Gaging Station
  - Drainage
  - Highway
  - Conservation District Boundary
  - Watershed Boundary



## YOUR WATER SUPPLY

MOUNTAIN SNOWPACKS RANGE FROM AVERAGE IN THE LOWER NORTH PLATTE TO 160% OF NORMAL IN THE LARAMIE RIVER DRAINAGE. SPRING AND SUMMER STREAMFLOWS ARE EXPECTED TO BE ABOVE NORMAL (130% ON NORTH PLATTE) WITH ONE BEING 20% BELOW NORMAL (DEER CREEK). RESERVOIR STORAGE IS AVERAGE FOR FEBRUARY 1.

# LOWER NORTH PLATTE RIVER WATERSHED

## STREAMFLOW FORECASTS

| BASIN, STREAM and/or FORECAST POINT          | THIS YEAR          |                    |                 | PAST RECORD        |           |
|--|--------------------|--------------------|-----------------|--------------------|-----------|
|  | FORECAST           |                    | FORECAST PERIOD | THOUSAND ACRE FEET |           |
|  | Thousand Acre Feet | Percent of Average |                 | Last Year **       | Average + |
| North Platte River near Sinclair             | 840                | 130                | Apr-Sept        | 257                | 648       |
| Deer Creek at Glenrock                       | 21                 | 80                 | Mar-July        | 30                 | 26.       |
| LaPrele Creek near Douglas (Ab. Reservoir)   | 19.8               | 110                | Mar-July        | 13.2               | 18        |
| Laramie River & Pioneer Canal near Woods (1) | 165                | 130                | Apr-Sept        | 67                 | 127       |
| Little Laramie River near Filmore            | 86                 | 139                | Apr-Sept        | 32                 | 62        |

(1) Observed flow plus transbasin diversions from North Platte River Basin to Cache La Poudre River Basin in Colorado.

\*\* Measured flows for last year are U.S. Geological Survey provisional figures subject to revision.

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

| RIVER BASIN<br>and/or<br>SUB-WATERSHED | Number of<br>Courses<br>Averaged | THIS YEAR'S SNOW<br>WATER AS PERCENT OF |           | Last Year | Average + |
|--|----------------------------------|---|-----------|-----------|-----------|
|  |                                  | Last Year                               | Average + |           |           |
| Laramie River                          | 13                               | 385                                     | 160       |           |           |
| Lower North Platte                     | 3                                | 126                                     | 102       |           |           |

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

| RESERVOIR       | Usable<br>Capacity | Usable Storage |              |           | + Less than 15 years in period |
|-----------------|--------------------|----------------|--------------|-----------|--------------------------------|
|                 |                    | This<br>Year   | Last<br>Year | Average + |                                |
| Seminoe         | 1010.5             | 368.5          | 498.3        | 392.7     |                                |
| Pathfinder      | 1015.9             | 382.3          | 765.0        | 341.4     |                                |
| Alcova          | 30.7               | 4.0            | 2.6          | -1.9      |                                |
| Glendo          | 783.7              | 327.1          | 313.2        | 313.4     |                                |
| Guernsey        | 45.2               | 14.5           | 5.9          | 10.7      |                                |
| Wheatland No. 2 | 98.9               | 14.0           | 31.5         | 39.7*     |                                |

\*Less than 15 years in period

+ 1958-1972 period

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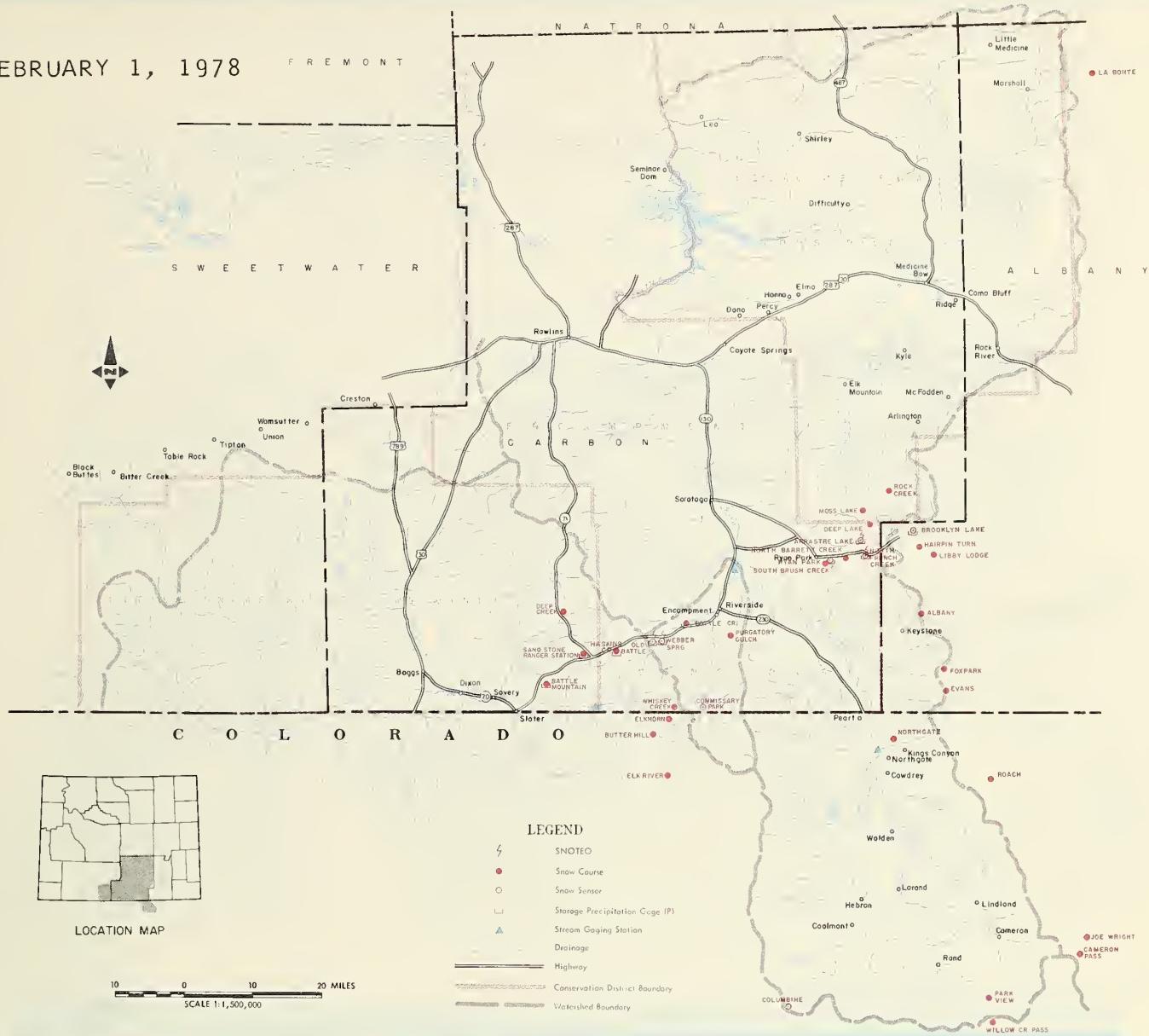


# FIRST CLASS MAIL

*"The Conservation of Water begins with the Snow Survey"*

**WATER SUPPLY OUTLOOK  
FOR THE CONSERVATION DISTRICTS IN THE  
UPPER NORTH PLATTE AND LITTLE SNAKE RIVER BASINS  
IN WYOMING**

FEBRUARY 1, 1978



## YOUR WATER SUPPLY

STREAMFLOWS FOR THIS SPRING AND SUMMER ARE FORECAST FROM 121% ON THE ENCAMPMENT RIVER TO 145% OF NORMAL ON ROCK CREEK. THE EXCELLENT SNOWPACK RANGES FROM 135 TO 155 PERCENT OF THE USUAL FEBRUARY 1 CONDITIONS. RESERVOIR STORAGE AT SEMINOE IS AT 94% OF AVERAGE.

## UPPER NORTH PLATTE RIVER AND LITTLE SNAKE RIVER BASINS STREAMFLOW FORECASTS

| BASIN, STREAM and/or FORECAST POINT | THIS YEAR          |                    | PAST RECORD     |                    |           |
|-------------------------------------|--------------------|--------------------|-----------------|--------------------|-----------|
|                                     | FORECAST           |                    | FORECAST PERIOD | THOUSAND ACRE FEET |           |
|                                     | Thousand Acre Feet | Percent of Average |                 | Last Year **       | Average + |
| North Platte River near Northgate   | 336                | 140                | Apr-Sept        | 63                 | 240       |
| North Platte River near Sinclair    | 840                | 130                | Apr-Sept        | 257                | 648       |
| Encampment River near Encampment    | 170                | 121                | Apr-Sept        | 55                 | 141       |
| Rock Creek near Arlington           | 80                 | 145                | Apr-Sept        | 32                 | 55        |
| Little Snake near Dixon             | 420                | 140                | Apr-Sept        | 55                 | 301       |
| Little Snake near Slater, Colo.     | 190                | 131                | Apr-Sept        | --                 | 145       |

\*\* Measured flow for last year are U.S. Geological Survey provisional figures subject to revision.

### SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

| RIVER BASIN<br>and/or<br>SUB-WATERSHED | Number of<br>Courses<br>Averaged | THIS YEAR'S SNOW<br>WATER AS PERCENT OF |           |
|--|----------------------------------|---|-----------|
|  |                                  | Last Year                               | Average + |
| Upper North Platte                     | 15                               | 290                                     | 145       |
| Medicine Bow River<br>and Rock Creek   | 2                                | 273                                     | 155       |
| Little Snake                           | 2                                | 364                                     | 135       |

### RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

| RESERVOIR | Usable<br>Capacity | Usable Storage |              |           |
|-----------|--------------------|----------------|--------------|-----------|
|           |                    | This<br>Year   | Last<br>Year | Average + |
| Seminoe   | 1010.5             | 368.5          | 498.3        | 392.7     |

| DRAINAGE BASIN and/or SNOW COURSE | THIS YEAR      |                  | PAST REC.         |                        |
|-----------------------------------|----------------|------------------|-------------------|------------------------|
|                                   | Date of Survey | Snow Depth (In.) | Water Cont. (In.) | Water Content (inches) |
|                                   | Last           | Ave.             | Yr.               | + Ave.                 |
| Albany                            | 1/31           | 51               | 15.7              | 4.3 9.6                |
| Battle Mountain                   | 2/01           | 37               | 9.9               | 2.3 -                  |
| Brooklyn Lake                     | 1/31           | 69               | 23.0              | 4.8 13.7               |
| Butter Hill                       | 2/01           | 45               | 12.5              | 3.1 -                  |
| Cameron Pass                      | 2/01           | 71               | 23.9              | 8.6 16.5               |
| Deep Creek                        | 2/01           | 48               | 13.1              | 3.3 -                  |
| Deep Lake                         | 1/31           | 111              | 36.7              | 13.7 -                 |
| Elkhorn                           | 2/01           | 80               | 23.8              | 5.5 -                  |
| Elk River                         | 2/01           | 62               | 17.9              | 4.2 11.4               |
| Evans                             | 2/01           | 42               | 12.6              | 3.1 6.7                |
| Foxpark                           | 2/31           | 37               | 9.8               | 1.4 4.2                |
| Hairpin Turn                      | 2/30           | 59               | 19.2              | 2.8 10.6               |
| Haskins Creek                     | 2/01           | 97               | 28.5              | 6.5 -                  |
| LaBonte                           | 1/28           | 20               | 4.5               | 2.8 3.2                |
| Libby Lodge                       | 2/30           | 46               | 13.1              | 2.5 7.1                |
| Moss Lake                         | 2/31           | 79               | 23.6              | 7.6 -                  |
| North Barrett Creek               | 2/31           | 58               | 14.9              | 8.1 13.3               |
| North French Creek Pillow         | 2/31           | 87               | 20.0              | 7.8 14.2               |
| Old Battle                        | 2/01           | 84               | 27.2              | 8.2 22.0               |
| Purgatory Gulch                   | 2/01           | 29               | 7.5               | 2.6 -                  |
| Rock Creek                        | 1/31           | 72               | 21.3              | 11.4 14.8              |
| Ryan Park                         | 2/31           | 37               | 9.0               | 4.4 7.0                |
| Sandstone R.S.                    | 2/01           | 51               | 14.3              | 3.6 -                  |
| Webber Spring                     | 2/01           | 69               | 21.2              | 5.5 13.9               |
| Whiskey Creek                     | 2/01           | 92               | 28.3              | 6.8 -                  |

+ 1958-1972 period

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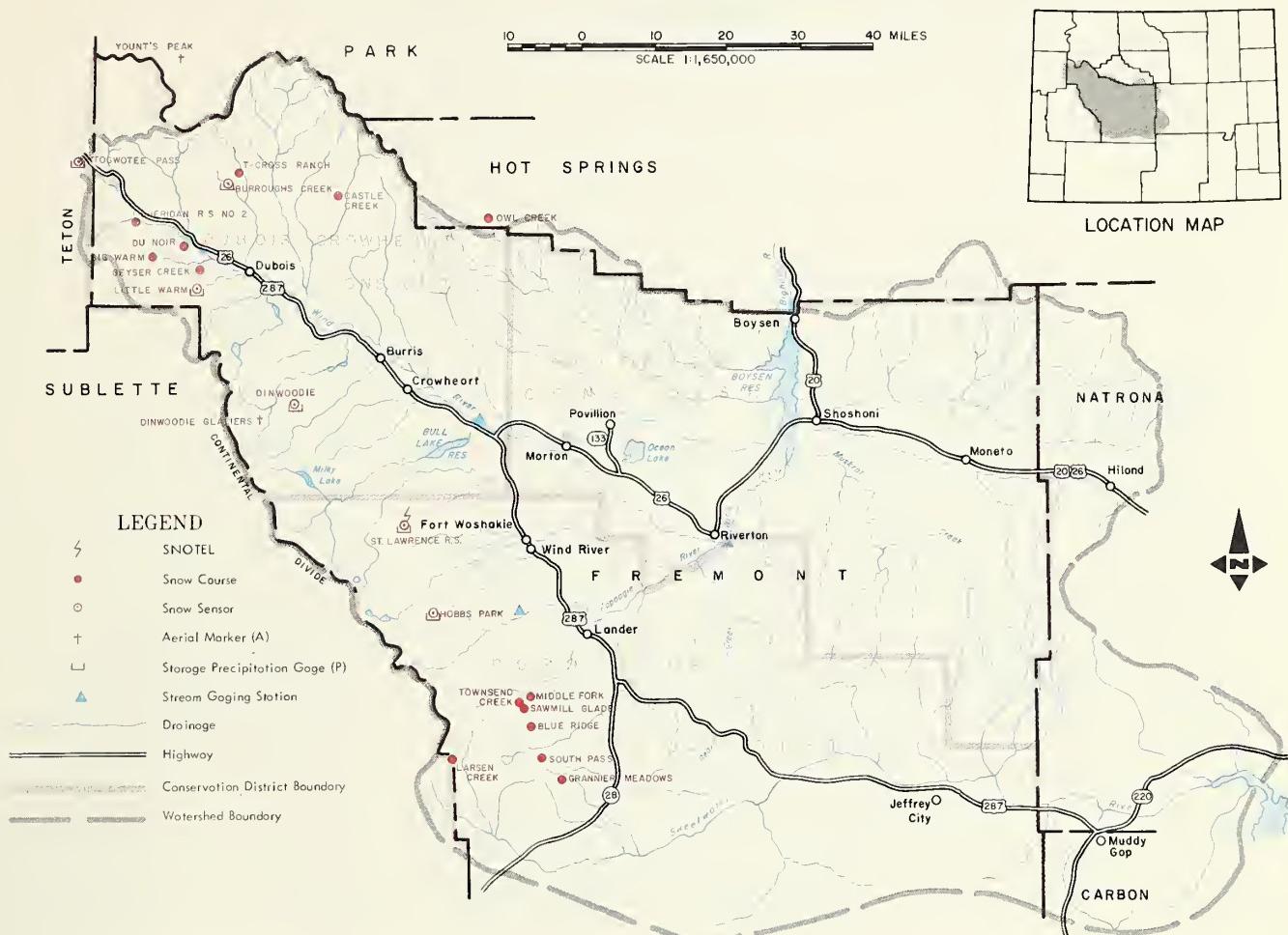


# FIRST CLASS MAIL

"The Conservation of Water begins with the Snow Survey"

**WATER SUPPLY OUTLOOK  
FOR THE CONSERVATION DISTRICTS IN THE  
WIND RIVER BASIN AND SWEETWATER RIVER WATERSHED  
IN WYOMING**

FEBRUARY 1, 1978



**YOUR WATER SUPPLY**

FEBRUARY 1 FORECASTS OF SPRING AND SUMMER STREAMFLOWS ARE AS HIGH AS 149% ON THE UPPER WIND RIVER. BULL LAKE CREEK AND THE LITTLE POPO AGIE ARE EXPECTED TO BE 4 AND 10% BELOW NORMAL, RESPECTIVELY. SNOWPACKS RANGE FROM 91 TO 152 PERCENT. BULL LAKE AND BOYSEN RESERVOIR STORAGE IS NEAR NORMAL BUT PILOT BUTTE IS 56% BELOW NORMAL.

# WIND RIVER BASIN AND SWEETWATER RIVER WATERSHED STREAMFLOW FORECASTS

| BASIN, STREAM and/or FORECAST POINT | THIS YEAR          |                    | PAST RECORD     |                    |
|-------------------------------------|--------------------|--------------------|-----------------|--------------------|
|                                     | FORECAST           |                    | FORECAST PERIOD | THOUSAND ACRE FEET |
|                                     | Thousand Acre Feet | Percent of Average |                 | Last Year **       |
| Wind River near Dubois              | 152                | 149                | Apr-Sept        | 42                 |
| Wind River at Riverton (1)          | 830                | 125                | Apr-Sept        | 292                |
| Wind River below Boysen (2)         | 1160               | 115                | Apr-Sept        | 479                |
| Bull Lake Creek near Lenore (3)     | 174                | 96                 | Apr-Sept        | 105                |
| Little Popo Agie near Lander        | 43                 | 90                 | Apr-Sept        | 20                 |

(1) Observed flow plus change in storage in Bull Lake and Pilot Butte Reservoirs and diversion to Wyoming Canal.

(2) Observed flow plus change in storage in Bull Lake, Pilot Butte and Boysen Reservoirs; plus diversion to Wyoming Canal.

(3) Observed flow plus change in storage in Bull Lake

\*\* Measured flows for last year are U.S. Geological Survey provisional figures subject to revision.

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

| RIVER BASIN<br>and/or<br>SUB-WATERSHED | Number of<br>Courses<br>Averaged | THIS YEAR'S SNOW<br>WATER AS PERCENT OF |           |
|--|----------------------------------|---|-----------|
|  |                                  | Last Year                               | Average + |
| Wind River                             | 9                                | 579                                     | 152       |
| Popo Agie                              | 5                                | 198                                     | 91        |
| Sweetwater                             | 3                                | 295                                     | 117       |

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

| RESERVOIR   | Usable<br>Capacity | Usable Storage |              |           |
|-------------|--------------------|----------------|--------------|-----------|
|             |                    | This<br>Year   | Last<br>Year | Average + |
| Bull Lake   | 151.8              | 79.4           | 54.0         | 83.5      |
| Pilot Butte | 31.6               | 5.9            | 8.2          | 13.3      |
| Boysen      | 549.9              | 295.8          | 313.6        | 289.0     |

## SNOW

| DRAINAGE BASIN and/or SNOW COURSE | Date of Survey | Snow Depth (in.) | Water Cont. (in.) | THIS YEAR |       | PAST REC.              |  |
|-----------------------------------|----------------|------------------|-------------------|-----------|-------|------------------------|--|
|                                   |                |                  |                   | Last Yr.  | Ave + | Water Content (inches) |  |
| Big Warm Spring                   | 1/28           | 23               | 6.4               | 0.8       | 4.4   |                        |  |
| Blue Ridge                        | 1/30           | 23               | 7.6               | 4.4       | 8.0   |                        |  |
| Burroughs Creek                   | 1/29           | 50               | 17.7              | 2.3       | 9.2   |                        |  |
| Castle Creek                      | 1/29           | 24               | 5.6               | 0.1       | -     |                        |  |
| Dinwoody                          | 1/31           | 34               | 8.7               | 1.0       | 8.2   |                        |  |
| DuNoir                            | 1/28           | 30               | 8.3               | 1.4       | 5.2   |                        |  |
| Geyser Creek                      | 1/28           | 29               | 7.5               | 0.1       | 4.7   |                        |  |
| Grannier Meadows                  | 1/30           | 31               | 10.8              | 4.9       | 9.6   |                        |  |
| Hobbs Park                        | 2/01           | 32               | 8.8               | 3.0       | 9.2   |                        |  |
| Larsen Creek                      | 2/01           | 44               | 12.8              | 2.2       | 9.4   |                        |  |
| Little Warm                       | 1/28           | 53               | 16.2              | 3.2       | 10.7  |                        |  |
| Middle Fork                       | 1/30           | 14               | 2.8               | 3.5       | -     |                        |  |
| Owl Creek                         | 1/28           | 13               | 2.1               | 1.8       | 3.6   |                        |  |
| Sawmill Glade                     | 1/30           | 14               | 4.4               | 3.6       | 5.8   |                        |  |
| Sheridan R.S.                     | 1/28           | 29               | 7.0               | 1.1       | 5.1   |                        |  |
| St. Lawrence R.S.                 | 2/01           | 17               | 3.0               | 1.8       | 4.5   |                        |  |
| South Pass                        | 1/30           | 37               | 10.3              | 4.4       | 10.0  |                        |  |
| T-Cross Ranch                     | 1/29           | 33               | 9.0               | 0.1       | 4.8   |                        |  |
| Togwotee Pass                     | 2/02           | 98               | 29.3              | 9.0       | 20.0  |                        |  |
| Younts Peak Aerial                | De 1 a y e d   |                  |                   | 5.0       | -     |                        |  |

+ 1958-1972 period

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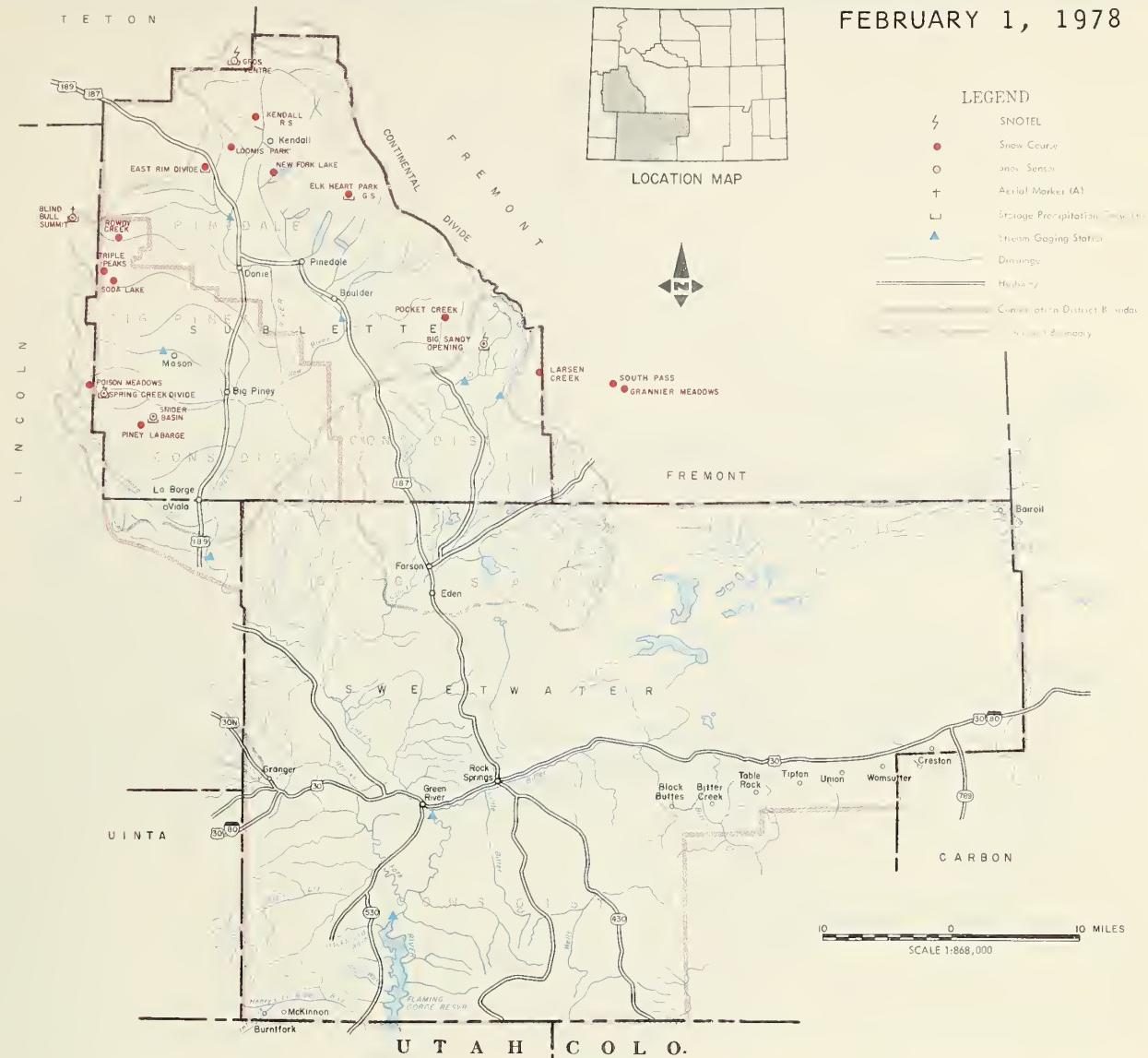
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# FIRST CLASS MAIL

"The Conservation of Water begins with the Snow Survey"

# WATER SUPPLY OUTLOOK FOR THE CONSERVATION DISTRICTS IN THE UPPER GREEN RIVER BASIN IN WYOMING



## YOUR WATER SUPPLY

SNOWPACKS ARE IMPROVED AS MUCH AS FIVE TIMES LAST YEAR'S FEBRUARY 1 FIGURES. THE POISON MEADOWS SNOW COURSE IS AT A MAXIMUM FEBRUARY 1 SNOWPACK ON RECORD. THE UPPER GREEN RIVER BASIN IS 164% OF NORMAL ON THE WEST SIDE AND THE BIG SANDY DRAINAGE IS LOWEST AT 116% OF NORMAL. POTENTIAL SPRING AND SUMMER STREAMFLOWS RANGE FROM 105% ON THE BIG SANDY TO 131% ON THE GREEN RIVER. RESERVOIR STORAGE REMAINS BELOW NORMAL FOLLOWING LAST YEAR'S LOW RUNOFFS.

# UPPER GREEN RIVER BASIN IN WYOMING

## STREAMFLOW FORECASTS

| BASIN, STREAM and/or FORECAST POINT | THIS YEAR             |                       | FORECAST PERIOD | PAST RECORD        |           |  |
|-------------------------------------|-----------------------|-----------------------|-----------------|--------------------|-----------|--|
|                                     | FORECAST              |                       |                 | THOUSAND ACRE FEET |           |  |
|                                     | Thousand<br>Acre Feet | Percent of<br>Average |                 | Last Year **       | Average + |  |
| Green River at Warren Bridge        | 415                   | 127                   | Apr-Sept        | 165                | 327       |  |
| Green River near LaBarge            | 1300                  | 131                   | Apr-Sept        | 288                | 931       |  |
| Green River near Green River (1)    | 1300                  | 131                   | Apr-Sept        | 279                | 989       |  |
| Flaming Gorge Inflow                | 1241                  | 106                   | Apr-July        | 1233               | 1174      |  |
| LaBarge Creek at LaBarge Meadows    | 11.7                  | 130                   | Apr-Sept        | 2.6                | 9.0       |  |
| Big Sandy River near Big Sandy      | 60                    | 105                   | Apr-Sept        | 26                 | 57        |  |

(1) Observed flow plus change in storage in Fontenelle Reservoir.

\*\* Measured flows for last year are U.S. Geological Survey provisional figures subject to revision.

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

| RIVER BASIN<br>and/or<br>SUB-WATERSHED | Number<br>of Courses<br>Averaged | THIS YEAR'S SNOW<br>WATER AS PERCENT OF |           | Date<br>of<br>Survey | Snow<br>Depth<br>(In.) | Water<br>Cont.<br>(In.) | Water Content<br>(inches) | Last<br>Yr. | Ave + |
|--|----------------------------------|---|-----------|----------------------|------------------------|-------------------------|---------------------------|-------------|-------|
|  |                                  | Last Year                               | Average + |                      |                        |                         |                           |             |       |
| Upper Green, East side                 | 8                                | 293                                     | 134       |                      |                        |                         |                           |             |       |
| Upper Green, West side                 | 6                                | 566                                     | 164       |                      |                        |                         |                           |             |       |
| Big Sandy                              | 2                                | 337                                     | 116       |                      |                        |                         |                           |             |       |

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

| RESERVOIR     | Usable<br>Capacity | Usable Storage |              |           | Date<br>of<br>Survey | Snow<br>Depth<br>(In.) | Water<br>Cont.<br>(In.) | Water Content<br>(inches) | Last<br>Yr. | Ave + |
|---------------|--------------------|----------------|--------------|-----------|----------------------|------------------------|-------------------------|---------------------------|-------------|-------|
|               |                    | This<br>Year   | Last<br>Year | Average + |                      |                        |                         |                           |             |       |
| Eden          | 11.8               | 2.4            | 6.1          | --        |                      |                        |                         |                           |             |       |
| Big Sandy     | 38.3               | 8.9            | 19.5         | 14.7      |                      |                        |                         |                           |             |       |
| Fontenelle    | 344.8              | 251.6          | 213.9        | --        |                      |                        |                         |                           |             |       |
| Flaming Gorge | 3749.0             | 1987.5         | 3017.0       | --        |                      |                        |                         |                           |             |       |

| DRAINAGE BASIN and/or SNOW COURSE | THIS YEAR            |                        | PAST REC                |                           |
|-----------------------------------|----------------------|------------------------|-------------------------|---------------------------|
|                                   | Date<br>of<br>Survey | Snow<br>Depth<br>(In.) | Water<br>Cont.<br>(In.) | Water Content<br>(inches) |
| Big Sandy Opening                 | 2/01                 | 48                     | 12.5                    | 3.9                       |
| Blind Bull Summit Aerial          | 1/28                 | 106                    | 31.8                    | 6.6                       |
| East Rim Divide                   | 1/28                 | 50                     | 12.8                    | 14.8                      |
| Elkhart Park                      | 1/31                 | 48                     | 13.2                    | 3.2                       |
| Grannier Meadows                  | 1/30                 | 31                     | 10.8                    | 4.9                       |
| Gros Ventre Summit                | 1/29                 | 38                     | 9.8                     | 2.6                       |
| Kendall R.S.                      | 1/29                 | 44                     | 13.0                    | 3.0                       |
| Larsen Creek                      | 2/01                 | 44                     | 12.8                    | 2.2                       |
| Loomis Park                       | 1/28                 | 63                     | 20.6                    | 3.7                       |
| New Fork Lake                     | 1/28                 | 42                     | 13.5                    | 2.0                       |
| Pocket Creek                      | 1/31                 | 40                     | 10.4                    | 2.9                       |
| Poison Meadows                    | 2/02                 | 111                    | 33.1                    | 6.2                       |
| Rowdy Creek                       | 1/27                 | 79                     | 25.4                    | 4.0                       |
| Snider Basin                      | 2/02                 | 66                     | 20.2                    | 3.6                       |
| South Pass                        | 1/30                 | 37                     | 10.3                    | 4.4                       |
| Triple Peaks                      | 1/27                 | 94                     | 31.7                    | 4.2                       |

+ 1958-1972 period

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Kemmerer, Wyoming 83101

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PENALTY FOR PRIVATE USE, \$300



POSTAGE AND FEES PAID  
U.S. DEPARTMENT OF  
AGRICULTURE

AGR-101



# FIRST CLASS MAIL

"The Conservation of Water begins with the Snow Survey"

# WATER SUPPLY OUTLOOK FOR THE CONSERVATION DISTRICTS IN THE LOWER GREEN RIVER AND BEAR RIVER WATERSHEDS IN WYOMING

FEBRUARY 1, 1978

## LEGEND

- SNOTEL
- Snow Course
- Snow Sensor
- Aerial Marker (A1)
- Storage Precipitation Gage (P)
- Stream Gaging Station
- Drainage
- Highway
- Conservation District Boundary
- Watershed Boundary



LOCATION MAP



## YOUR WATER SUPPLY

DROUGHT CONDITIONS OF LAST SUMMER SHOULD BE RELIEVED BY SNOWPACKS THAT RANGE AS HIGH AS 153% OF AVERAGE, AND AS MUCH AS 5 TO 6 TIMES THE MEAGER SNOWFALL MEASURED ON FEBRUARY 1, 1977. MOST STREAMFLOWS THIS SUMMER WILL BE 30% ABOVE NORMAL WITH THE HENRY'S AND BLACK'S FORKS RUNNING AROUND ONLY 10% BELOW NORMAL. VIVA NAUGHTON RESERVOIR IS 28% BELOW THE USUAL FEBRUARY 1 STORAGE AMOUNT.

# LOWER GREEN RIVER AND BEAR RIVER WATERSHEDS

## STREAMFLOW FORECASTS

| BASIN, STREAM and/or FORECAST POINT       | THIS YEAR          |                    |                 | PAST RECORD        |           |
|---|--------------------|--------------------|-----------------|--------------------|-----------|
|   | FORECAST           |                    | FORECAST PERIOD | THOUSAND ACRE FEET |           |
|   | Thousand Acre Feet | Percent of Average |                 | Last Year **       | Average + |
| LaBarge Creek at LaBarge Meadows          | 11.7               | 130                | Apr-Sept        | 2.6                | 9.0       |
| Green River near Green River (1)          | 1300               | 131                | Apr-Sept        | 279                | 989       |
| Hams Fork below Pole Creek, near Frontier | 90                 | 130                | Apr-Sept        | -                  | 69        |
| Blacks Fork near Millburne                | 85                 | 90                 | Apr-July        | 44                 | 94        |
| Flaming Gorge Inflow                      | 1241               | 106                | Apr-July        | 1233               | 1174      |
| Smiths Fork near Border                   | 150                | 130                | Apr-Sept        | 27                 | 116       |
| Thomas Fork near State Line               | 48                 | 130                | Apr-Sept        | 3.8                | 32        |
| Bear River at Utah-Wyoming State Line     | 113                | 101                | Apr-July        | 41                 | 112       |
| Henry's Fork near Manila, UT              | 40                 | 89                 | Apr-Sept        | 3.6                | 45        |

(1) Observed flow plus change in storage in Fontenelle Reservoir.

\*\* Measured flow for last year are U.S. Geological Survey provisional figures subject to revision.

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

| RIVER BASIN<br>and/or<br>SUB-WATERSHED | Number of<br>Courses<br>Averaged | THIS YEAR'S SNOW<br>WATER AS PERCENT OF |           |
|--|----------------------------------|---|-----------|
|  |                                  | Last Year                               | Average + |
| Bear River                             | 1                                | 603                                     | 116       |
| Thomas & Smiths Forks                  | 3                                | 542                                     | 153       |

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

| RESERVOIR     | Usable<br>Capacity | Usable Storage |              |           |
|---------------|--------------------|----------------|--------------|-----------|
|               |                    | This<br>Year   | Last<br>Year | Average + |
| Fontenelle    | 344.8              | 251.6          | 213.9        | -         |
| Flaming Gorge | 3749.0             | 1987.5         | 3017.0       | -         |
| Viva Naughton | 42.4               | 20.8           | 30.3         | 28.9*     |

\*Average for period of record.

UNITED STATES DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

P.O. Box S10  
Kemmerer, Wyoming 83101

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AGR-101



# FIRST CLASS MAIL

*"The Conservation of Water begins with the Snow Survey"*

# BASIC DATA SUPPLEMENT 1

## SNOW

| DRAINAGE BASIN and/or SNOW COURSE | THIS YEAR       |                  | PAST REC.         |                        |
|-----------------------------------|-----------------|------------------|-------------------|------------------------|
|                                   | Date of Survey  | Snow Depth (In.) | Water Cont. (In.) | Water Content (inches) |
|                                   | Last Yr.        | Ave+             |                   |                        |
| Afton Ranger Station              | 1/30            | 19               | 4.2               | 1.6 3.4                |
| Albany                            | 1/31            | 51               | 15.7              | 4.3 9.6 c              |
| Arizona                           | 1/31            | 65               | 18.3              | 3.7 12.8               |
| Arrastre Lake Pillow              | - No Report     | -                | -                 | -                      |
| Aster Creek                       | 1/30            | 80               | 26.6              | 4.1 21.1               |
| Bald Mountain*                    | 2/01            | 76               | 19.6              | 16.1 14.6 b            |
| Bald Mountain Pillow              | - No Report     | -                | 14.1              | -                      |
| Base Camp                         | 1/31            | 69               | 22.0              | 4.3 13.9               |
| Battle Mountain*                  | 2/01            | 37               | 9.9               | 2.3 -                  |
| Bearlodge Divide                  | 1/31            | 13               | 3.4               | 4.0 2.3 a              |
| Bear Trap Aerial                  | 2/02            | 35               | 8.8               | 6.0 6.5 a              |
| Beaver-Tongue Divide              | -- Discontinued | -                | -                 | -                      |
| Big Goose*                        | 2/02            | 24               | 4.6               | 3.9 4.8 b              |
| Big Park*                         | 1/30            | 63               | 20.4              | 3.8 13.6 b             |
| Big Sandy Opening*                | 2/01            | 48               | 12.5              | 3.9 10.5 b             |
| Big Sandy Opening Pillow          | 2/01            | -                | 10.7              | 2.7 -                  |
| Big Warm Springs*                 | 1/28            | 23               | 6.4               | 0.8 4.4 b              |
| Blackrock                         | 2/02            | 77               | 21.8              | 6.3 14.5               |
| Blind Bull Summit Aerial          | 1/28            | 106              | 31.8              | 6.6 18.3 a             |
| Blind Bull Summit Pillow          | - No Report     | -                | -                 | -                      |
| Blue Ridge*                       | 1/30            | 23               | 7.6               | 4.4 8.0 b              |
| Bone Spring Divide*               | 2/01            | 56               | 14.6              | 11.1 12.2 b            |
| Bottle Creek                      | -- Discontinued | -                | -                 | -                      |
| Boxelder                          | 1/29            | 21               | 5.1               | 3.4 3.9                |
| Brooklyn Lake*                    | 1/31            | 69               | 23.0              | 4.8 13.7 b             |
| Brooklyn Lake Pillow              | - No Report     | -                | 5.1               | -                      |
| Bryan Flat*                       | 1/26            | 33               | 8.4               | 2.1 7.0 b              |
| Buck Creek                        | 1/30            | 26               | 5.4               | 3.8 -                  |
| Burgess Ranger Station            | 2/01            | 27               | 5.4               | 6.2 5.1 b              |
| Burgess Ranger Sta. Pillow        | - No Report     | -                | -                 | -                      |
| Burroughs Creek                   | 1/29            | 50               | 17.7              | 2.3 9.2                |
| Burroughs Creek Pillow            | - No Report     | -                | -                 | -                      |
| Butter Hill*                      | 2/01            | 45               | 12.5              | 3.1 -                  |
| Cameron Pass                      | 2/01            | 71               | 23.9              | 8.6 16.5               |
| Canyon                            | 1/30            | 55               | 15.1              | 4.1 10.7 c             |
| Canyon Pillow                     | 2/02            | -                | 12.8              | - -                    |
| Carter Mountain                   | 1/30            | 11               | 2.2               | 1.8 3.0 c              |
| Casper Mountain                   | 1/31            | 26               | 6.2               | 6.3 8.4                |
| Casper Mountain Pillow            | 1/31            | -                | 5.5               | 5.0 -                  |
| Castle Creek                      | 1/29            | 24               | 5.6               | 0.1 -                  |
| CCC Camp*                         | 1/31            | 45               | 14.6              | 3.4 8.3 b              |
| Chambers Lake                     | 1/27            | 41               | 10.9              | 1.1 5.6                |
| Cloud Peak Aerial                 | 2/02            | 25               | 6.0               | 3.8 6.5 a              |
| Cold Springs Camp                 | -- Discontinued | -                | -                 | -                      |
| Columbine Lodge                   | 1/30            | 85               | 26.5              | 6.8 14.3               |
| Cooke Station                     | 1/27            | 72               | 21.4              | 8.6 -                  |
| Cottonwood Lake Aerial            | 1/28            | 72               | 23.0              | 4.4 12.1 a             |
| Cottonwood Lake Pillow            | - No Report     | -                | -                 | -                      |
| Coulter Creek                     | 1/30            | 75               | 23.9              | 5.7 -                  |
| Darby Canyon                      | 2/01            | 67               | 17.6              | 6.3 -                  |
| Deadman Hill                      | 1/26            | 41               | 12.2              | 2.6 10.4               |
| Deep Creek*                       | 2/01            | 48               | 13.1              | 3.3 -                  |
| Deep Lake*                        | 1/31            | 111              | 36.7              | 13.7 -                 |
| Dinwoody                          | 1/31            | 34               | 8.7               | 1.0 8.2 b              |
| Dinwoody Pillow                   | - No Report     | -                | -                 | -                      |
| Dome Lake                         | 2/02            | 29               | 6.9               | 4.1 6.5                |
| Dome Lake Pillow                  | - No Report     | -                | -                 | -                      |
| DuNoir                            | 1/28            | 30               | 8.3               | 1.4 5.2                |
| East Entrance                     | 1/31            | 42               | 12.2              | 2.9 7.1                |
| East Rim Divide*                  | 1/28            | 50               | 12.8              | 14.8 8.9 b             |
| Elbo Ranch                        | 1/30            | 39               | 10.8              | 2.3 -                  |
| Elkhart Park G.S.*                | 1/31            | 48               | 13.2              | 3.2 10.0 b             |
| Elkhorn*                          | 2/01            | 80               | 23.8              | 5.5 -                  |
| Elk River                         | 2/01            | 62               | 17.9              | 4.2 11.4               |
| Evans                             | 2/01            | 42               | 12.6              | 3.1 6.7 c              |
| Fisher Creek                      | 1/27            | 103              | 32.8              | 15.1 24.8              |
| Fisher Creek Pillow               | 1/27            | -                | 29.2              | 14.4 25.5              |
| Five Springs Falls                | 1/31            | 33               | 7.6               | 7.1 5.4                |

## SNOW

| DRAINAGE BASIN and/or SNOW COURSE | THIS YEAR       |                  | PAST REC.         |                        |
|-----------------------------------|-----------------|------------------|-------------------|------------------------|
|                                   | Date of Survey  | Snow Depth (In.) | Water Cont. (In.) | Water Content (inches) |
|                                   | Last Yr.        | Ave+             |                   |                        |
| Four Mile Meadows                 | 2/02            | 53               | 13.8              | 3.6 9.0                |
| Foxpark*                          | 1/31            | 37               | 9.8               | 14. 4.2 b              |
| Fred's Mountain                   | 2/01            | 82               | 21.6              | 7.0 -                  |
| Geneva Pass Aerial                | 2/02            | 51               | 11.7              | 8.6 11.4 a             |
| Geyser Creek                      | 1/28            | 29               | 7.5               | 0.1 4.7                |
| Glade Creek                       | 1/30            | 74               | 22.5              | 5.8 14.7               |
| Granite Pass                      | --              | Discontinued     | --                | --                     |
| Grannier Meadows*                 | 1/30            | 31               | 10.8              | 4.9 9.6 b              |
| Grassy Lake                       | 1/30            | 100              | 30.8              | 9.9 23.2               |
| Greys Boundary*                   | 1/20            | 53               | 14.4              | 2.6 7.8 b              |
| Gros Ventre Summit*               | 1/29            | 38               | 9.8               | 2.6 9.0 b              |
| Gros Ventre Summit Pillow         | 1/29            | -                | 10.3              | 3.0 -                  |
| Grover Park Divide                | 2/01            | 46               | 13.4              | 2.6 8.2                |
| Hairpin Turn*                     | 1/30            | 59               | 19.2              | 2.8 10.6 b             |
| Haskins Creek*                    | 2/01            | 97               | 28.5              | 6.5 -                  |
| Hayden Fork                       | 1/24            | 42               | 12.4              | 2.2 -                  |
| Hewinta G.S.                      | 1/24            | 29               | 6.5               | 1.5 -                  |
| Hickerson Park                    | 1/24            | 20               | 3.4               | 1.9 -                  |
| Hobbs Park*                       | 2/01            | 32               | 8.8               | 3.0 9.2 b              |
| Hobbs Park Pillow                 | - No Report     | -                | 3.2               | -                      |
| Huckleberry Divide                | 1/31            | 74               | 21.3              | 5.1 14.6               |
| Indian Meadows                    | 2/01            | 111              | 32.6              | 8.4 -                  |
| Jackpine Creek                    | 2/01            | 71               | 19.2              | 5.0 -                  |
| Joe Wright                        | 2/01            | 68               | 21.0              | 9.1 16.1 a             |
| Kelley R.S.*                      | 1/30            | 59               | 19.0              | 3.2 13.2 b             |
| Kelley R.S. Pillow                | - No Report     | -                | 2.0               | -                      |
| Kendall R.S.*                     | 1/29            | 44               | 13.0              | 3.0 9.6 b              |
| LaBonte                           | 1/28            | 20               | 4.5               | 2.8 3.2                |
| Lake Camp                         | 1/30            | 37               | 9.5               | 1.8 6.0 c              |
| LaPrele Pillow                    | - No Report     | -                | -                 | -                      |
| Larsen Creek*                     | 2/01            | 44               | 12.8              | 2.2 9.4 b              |
| Lewis Lake Divide                 | 1/30            | 126              | 43.3              | 6.8 27.5               |
| Lewis Lake Divide Pillow          | 1/30            | -                | 35.7              | - -                    |
| Libby Lodge                       | 1/30            | 46               | 13.1              | 2.5 7.1 c              |
| Little Warm                       | 1/18            | 53               | 16.2              | 3.2 10.7               |
| Little Warm Pillow                | - No Report     | -                | -                 | -                      |
| Loomis Park*                      | 1/28            | 63               | 20.6              | 3.7 12.9 b             |
| Lost Lake                         | 1/27            | 45               | 11.9              | 2.2 7.7                |
| Lupine Creek                      | 1/30            | 33               | 8.8               | 2.6 7.7 c              |
| Mallo Pillow                      | 1/29            | 23               | 4.6               | 5.6 -                  |
| Marquette Creek                   | 1/30            | 15               | 2.6               | 2.6 -                  |
| Medicine Lodge Lakes*             | 2/02            | 46               | 12.3              | 6.4 7.8 b              |
| Medicine Wheel                    | -- Discontinued | -                | -                 | -                      |
| Middle Fork*                      | 1/30            | 14               | 2.8               | 3.5 -                  |
| Middle Powder                     | 1/31            | 24               | 5.9               | 6.2 7.3 b              |
| Middle Powder Pillow              | 1/31            | -                | 5.8               | 7.2 -                  |
| Miles Creek                       | 2/01            | 53               | 10.8              | 3.8 -                  |
| Monte Cristo                      | 1/27            | 62               | 19.3              | 3.2 16.7 a             |
| Moran                             | 1/31            | 49               | 12.8              | 4.0 9.6                |
| Moran Bay                         | - No Report     | -                | 5.7               | 14.7 c                 |
| Moss Lake*                        | 1/31            | 79               | 23.6              | 7.6 -                  |
| Mount Tom Pillow                  | - No Report     | -                | 6.2               | -                      |
| Muddy Creek G.S.*                 | 1/31            | 15               | 3.1               | 0.5 2.8 b              |
| Munkres Pass                      | -- Discontinued | -                | -                 | -                      |
| New Fork Lake*                    | 1/28            | 42               | 13.5              | 2.0 9.0 b              |
| Norris Basin                      | 1/28            | 38               | 9.6               | 2.9 8.0                |
| North Barrett Creek               | 1/31            | 58               | 14.9              | 8.1 13.3 c             |
| Northeast Entrance                | 1/27            | 41               | 10.6              | 4.0 6.6                |
| Northeast Entrance Pillow         | 1/27            | -                | 8.6               | - -                    |
| North French Creek Pillow         | 1/31            | 87               | 20.0              | 7.8 14.2               |
| Northgate                         | 2/01            | 21               | 4.2               | 1.8 3.8                |
| North Tongue*                     | 2/01            | 38               | 9.6               | 9.2 9.1 b              |
| Old Battle*                       | 2/01            | 84               | 27.2              | 8.2 22.0 b             |
| Old Battle Pillow                 | 2/01            | -                | 32.1              | - -                    |
| Old Faithful                      | 2/02            | 46               | 14.1              | 3.0 -                  |
| Onion Gulch*                      | 2/03            | 35               | 8.9               | 4.2 6.4 b              |
| Owl Creek                         | 1/28            | 13               | 2.1               | 1.8 3.6                |
| Parkers Peak Aerial               | - Delayed       | -                | 12.0              | -                      |

+ 1958-1972 period.

# BASIC DATA SUPPLEMENT 1

## SNOW

| DRAINAGE BASIN and/or SNOW COURSE | THIS YEAR      |                  |                   | PAST REC.              |          |      |
|-----------------------------------|----------------|------------------|-------------------|------------------------|----------|------|
|                                   | Date of Survey | Snow Depth (in.) | Water Cont. (in.) | Water Content (inches) | Last Yr. | Ave. |
| Park View                         | 1/31           | 25               | 6.3               | 2.2                    | 5.8      |      |
| Phillips Bench (e)                | 1/28           | 89               | 28.5              | 7.9                    | -        |      |
| Phillips Bench Pillow             | 1/27           | -                | 26.0              | 6.0                    | -        |      |
| Piney LaBarge                     | --             | Discontinued     | --                | --                     | --       |      |
| Pitchstone Plateau Aerial         | -              | Delayed          | -                 | 14.6                   | -        |      |
| Pocket Creek                      | 1/31           | 40               | 10.4              | 2.9                    | 9.2 b    |      |
| Poison Meadows*                   | 2/02           | 111              | 33.1              | 6.2                    | 21.2 b   |      |
| Pole Mountain                     | 2/02           | 18               | 3.5               | 2.2                    | 3.0      |      |
| Powder River Pass*                | 2/02           | 44               | 11.4              | 5.8                    | -        |      |
| Powder River Pass Pillow          | 2/02           | -                | 12.7              | 6.5                    | -        |      |
| Purgatory Gulch                   | 2/01           | 29               | 7.5               | 2.6                    | -        |      |
| Rabbit Ears                       | 1/30           | 83               | 24.8              | 5.7                    | 16.1     |      |
| Ranger Creek                      | 2/02           | 38               | 8.9               | 4.4                    | 7.0 c    |      |
| Reuter Canyon*                    | 2/01           | 26               | 6.4               | 8.8                    | 6.6 b    |      |
| Roach                             | 1/28           | 59               | 15.5              | 5.2                    | 10.6 a   |      |
| Rock Creek*                       | 1/31           | 72               | 21.3              | 11.4                   | 14.8 b   |      |
| Rowdy Creek                       | 1/27           | 79               | 25.4              | 4.0                    | 16.9 b   |      |
| Ryan Park*                        | 1/31           | 37               | 9.0               | 4.4                    | 7.0 b    |      |
| Salt River Summit                 | 1/30           | 56               | 18.0              | 3.6                    | 10.8     |      |
| Salt River Summit Pillow          | -              | No Repdrt        | -                 | 3.4                    | -        |      |
| Sandstone Ranger Station*         | 2/01           | 51               | 14.3              | 3.6                    | -        |      |
| Sawmill Divide                    | 2/02           | 40               | 9.3               | 7.9                    | -        |      |
| Sawmill Glade*                    | 1/30           | 14               | 4.4               | 3.6                    | 5.8 b    |      |
| Shell Creek*                      | 2/02           | 54               | 14.5              | 4.4                    | 10.3 b   |      |
| Shell Creek Pillow                | -              | No Report        | -                 | -                      | -        |      |
| Sheridan R.S.                     | 1/28           | 29               | 7.0               | 1.1                    | 5.1 b    |      |
| Sibley Lake                       | --             | Discontinued     | --                | --                     | --       |      |
| Snake River Station               | 1/30           | 74               | 21.8              | 5.2                    | 13.8     |      |
| Snider Basin R. S.*               | 2/02           | 66               | 20.2              | 3.6                    | 10.3 b   |      |
| Snow King Mountain                | 1/30           | 46               | 14.5              | 3.4                    | 10.8 a   |      |
| Soda Lake                         | --             | Discontinued     | --                | --                     | --       |      |
| Soldier Park*                     | 2/02           | 22               | 4.9               | 1.6                    | 4.0 b    |      |
| Sour Dough*                       | 1/31           | 22               | 4.7               | 1.0                    | 4.5 b    |      |
| South Brush Creek Pillow          | 1/31           | -                | 5.7               | 6.1                    | -        |      |
| South Pass                        | 1/30           | 37               | 10.3              | 4.4                    | 10.0     |      |
| South Thomas Fork*                | 1/31           | 51               | 17.2              | 2.8                    | -        |      |
| Spirit Lake                       | 1/24           | 24               | 4.1               | 2.9                    | -        |      |
| Spring Creek Divide Pillow        | 2/02           | -                | 23.2              | 3.7                    | -        |      |
| State Line                        | 2/01           | 47               | 10.8              | 2.7                    | 9.9      |      |
| Steamboat Point*                  | 2/01           | 27               | 6.2               | 4.9                    | 5.2 b    |      |
| Steel Creek Park                  | 1/24           | 45               | 11.6              | 3.4                    | -        |      |
| Stillwater Camp                   | 1/24           | 31               | 8.0               | 1.5                    | -        |      |
| St. Lawrence R.S.*                | 2/01           | 17               | 3.0               | 1.8                    | 4.5 b    |      |
| St. Lawrence R.S. Pillow          | 1/31           | -                | 3.3               | -                      | -        |      |
| Sucker Creek                      | 2/01           | 39               | 8.6               | 8.2                    | 8.1 b    |      |
| Sucker Creek Pillow               | -              | No Report        | -                 | -                      | -        |      |
| Sweetwater Mountain Pillow        | -              | No Report        | -                 | 5.1                    | -        |      |
| Sylvan Lake Pillow                | -              | No Report        | -                 | -                      | -        |      |
| Sylvan Pass                       | 1/31           | 50               | 14.4              | 3.8                    | 9.4 b    |      |
| T-Cross Ranch                     | 1/29           | 33               | 9.0               | 0.1                    | 4.8      |      |
| Teton Pass W.S. (e)               | 1/28           | 74               | 23.7              | 6.1                    | -        |      |
| Thumb Divide                      | 1/30           | 55               | 16.3              | 2.8                    | 15.4     |      |
| Timber Creek (e)                  | 1/28           | 5                | 0.9               | 0.4                    | 2.3 c    |      |
| Togwotee Pass                     | 2/02           | 98               | 29.3              | 9.0                    | 20.0     |      |
| Togwotee Pass Pillow              | 2/02           | -                | 26.5              | -                      | -        |      |
| Townsend Creek                    | 1/30           | 16               | 3.1               | 4.0                    | -        |      |
| Trial Lake                        | 1/24           | 64               | 21.1              | 2.9                    | 15.5     |      |
| Triple Peaks*                     | 1/27           | 94               | 31.7              | 4.2                    | 18.6 b   |      |
| Turpin Meadows                    | 2/02           | 47               | 13.1              | 3.0                    | 7.4      |      |
| Twenty-One Mile                   | 1/27           | 52               | 15.9              | 4.4                    | 12.7     |      |
| Two Ocean Plateau Aerial          | -              | Delayed          | -                 | 7.9                    | -        |      |
| Tyrell Ranger Station             | 2/02           | 37               | 8.6               | 4.0                    | 5.9 c    |      |
| Upper Spearfish                   | 1/31           | 22               | 3.7               | 6.6                    | 4.6      |      |
| Warren Peak                       | 2/01           | 23               | 5.5               | 6.5                    | 6.6 a    |      |
| Webber Spring*                    | 2/01           | 69               | 21.2              | 5.5                    | 13.9 b   |      |
| Webber Spring Pillow              | 2/01           | -                | 25.7              | 4.4                    | -        |      |
| West Tensleep Lake*               | --             | Discontinued     | --                | --                     | --       |      |

## SNOW

| DRAINAGE BASIN and/or SNOW COURSE | THIS YEAR      |                  |                   | PAST REC.              |          |      |
|-----------------------------------|----------------|------------------|-------------------|------------------------|----------|------|
|                                   | Date of Survey | Snow Depth (in.) | Water Cont. (in.) | Water Content (inches) | Last Yr. | Ave. |
| West Yellowstone                  | 1/27           | 38               | 11.0              | 2.8                    | 8.2      |      |
| Whiskey Creek*                    | 2/01           | 92               | 28.3              | 6.8                    | -        |      |
| White Mill                        | 1/27           | 79               | 25.6              | 10.8                   | -        |      |
| White Mill Pillow                 | 1/27           | -                | 23.2              | 9.1                    | -        |      |
| Willow Creek Pass                 | 1/31           | 34               | 9.9               | 3.2                    | 7.7      |      |
| Wolverine                         | 1/29           | 43               | 13.0              | 4.0                    | 8.9 c    |      |
| Wood Rock G.S.*                   | -              | No Report        | -                 | 6.9                    | 7.1 b    |      |
| Young's Ranch Aerial              | 1/28           | 84               | 24.4              | 4.0                    | -        |      |
| Younts Peak Aerial                | -              | Delayed          | -                 | 5.0                    | -        |      |

\* Snow course has been shortened or revised;  
prior records adjusted.

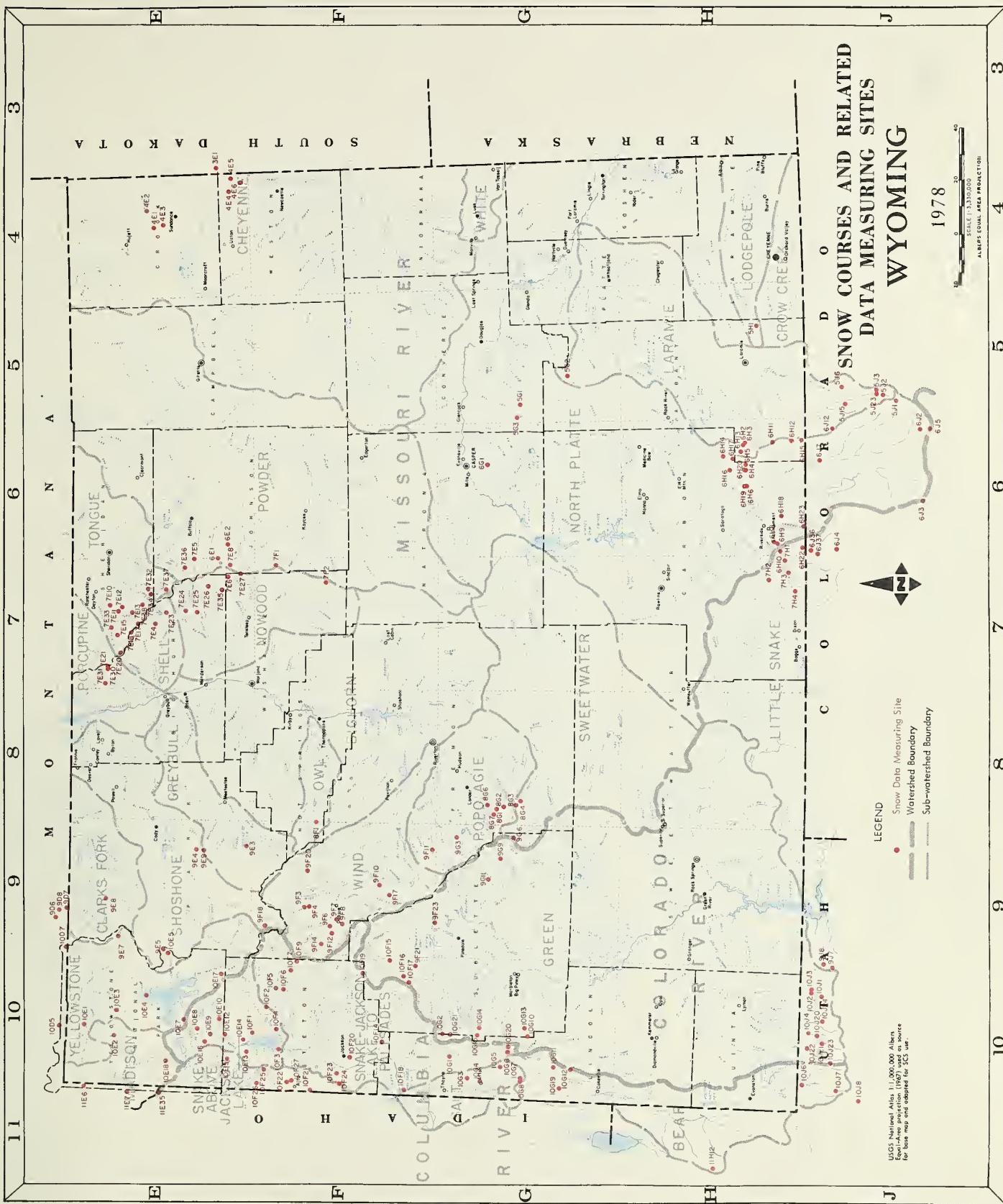
a Less than 15 years in period of average.

b 1958-72 adjusted average.

c Partly estimated.

(e)Estimated water content for this year.

Aerial - Aerial observation; water content estimated.



U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE USDA-SCS PORTLAND, OR 1977

USDA-SCS-PORTLAND, OR 1977

M7-OL-22029

# INDEX TO WYOMING SNOW COURSES AND DATA SITES

| DRAINAGE BASIN<br>AND COURSE NAME | WYOMING<br>NUMBER | ELEV.<br>LAT. | SEC.—TW.—<br>LONG. | LOCATION |       | WYOMING<br>NUMBER    | ELEV.<br>LAT. | SEC.—TW.—<br>LONG. | LOCATION |      |      |
|-----------------------------------|-------------------|---------------|--------------------|----------|-------|----------------------|---------------|--------------------|----------|------|------|
|                                   |                   |               |                    | SEC.     | LONG. |                      |               |                    |          |      |      |
| <b>MISSOURI RIVER DRAINAGE</b>    |                   |               |                    |          |       |                      |               |                    |          |      |      |
| Black Bear m.                     | 11233             | 7050          | 42°45'             | 15S      | 5E    | Stabley Lake         | 7EL1          | 7920               | 40°06'   |      |      |
| Madison River                     | 10922             | 7000          | 42°45'             | 15S      | 5E    | 7EL0                 | 7560          | 20                 | 54N      |      |      |
| Old Faithful                      | 10218             | 7000          | 42°27'             | 11S      | 5E    | 7EL*                 | 8880          | 42°04'             | 107°24'  |      |      |
| 21 Mile m.                        | 11167             | 7150          | 42°27'             | 11S      | 5E    | 7EL3                 | 8640          | 42°01'             | 107°27'  |      |      |
| West Yellowstone m.               | 11277             | 7000          | 42°27'             | 11S      | 5E    | Powder River         | 7F1A          | 7900               | 3        | 43N  | 85W  |
| Bear Trap                         | 7F1B              | 7236A         | 40°24'             | 109S     | 107S  | Clouds Peak          | 7F2*          | 7760               | 9        | 42N  | 86W  |
| Hiddle Powder                     | 7F2Z              | 7600          | 40°24'             | 109S     | 107S  | Hiddle Creek         | 6E2           | 7820               | 1        | 48N  | 85W  |
| Buddy Creek                       | 6E2               | 7800          | 40°24'             | 109S     | 107S  | Hunkies Pass         | 7B3           | 9400               | 10       | 48N  | 85W  |
| Union Gutch                       | 7EZP              | 7800          | 40°24'             | 109S     | 107S  | Boiler River Pass    | 7E4           | 8780               | 3        | 48N  | 85W  |
| South Gutch                       | 7E5*              | 7800          | 40°24'             | 109S     | 107S  | South Gutch          | 7E5           | 8780               | 4        | 48N  | 85W  |
| Sou'oughish                       | 7E5               | 7800          | 40°24'             | 109S     | 107S  | South Gutch          | 7E5           | 8780               | 5        | 48N  | 85W  |
| Grannier Headwaters               | 8G4               | 8860          | 19                 | 30N      | 106W  | Larsen Creek         | 9G6           | 9020               | 42°36'   | 109S | 107S |
| South Pass                        | 8G3               | 9040          | 13                 | 30N      | 101W  | South Pass           | 8G3           | 9040               | 13       | 30N  | 101W |
| Clock's Fork                      | 9F12              | 8700          | 29                 | 42N      | 108W  | Laramie River        | 5L15          | 9300               | 29       | 48N  | 75W  |
| Goode Station m.                  | 9037              | 8550          | 19                 | 42N      | 108W  | 5L16                 | 9120          | 14                 | 48N      | 75W  |      |
| Fowler's Peak m.                  | 9066              | 8890          | 11                 | 42N      | 108W  | 5L17                 | 10285         | 2                  | 48N      | 75W  |      |
| Grover's Peak m.                  | 9074              | 9000          | 42°44'             | 108S     | 107S  | 5L18                 | 10285         | 2                  | 48N      | 75W  |      |
| White Mill m.                     | 9088              | 8800          | 22                 | 42N      | 108W  | 5L19                 | 9080          | 21                 | 48N      | 75W  |      |
| Wolverine                         | 9E8               | 7650          | 42°48'             | 109S     | 109S  | 5L20                 | 6912          | 9600               | 21       | 48N  | 75W  |
| Wind River                        | 9F17              | 7800          | 42°42'             | 110S     | 109S  | Hairpin Turn         | 6E2           | 9460               | 19       | 48N  | 75W  |
| Thruway                           | 10174             | 9100          | 42°42'             | 110S     | 109S  | Lobby Lodge          | 6H3           | 8750               | 29       | 48N  | 75W  |
| Two Ocean Plateau                 | 10174             | 9100          | 42°42'             | 110S     | 109S  | Lost Lake c.         | 5L15          | 9300               | 29       | 48N  | 75W  |
| Sylvan Pass                       | 10153             | 7100          | 42°29'             | 110S     | 109S  | McIntyre c.          | 5L16          | 10900              | 35       | 48N  | 75W  |
| Owl Creek                         | 8F1               | 8750          | 43°50'             | 109S     | 108S  | Roach c.             | 6L12          | 8740               | 23       | 48N  | 75W  |
| Blue Ridge                        | 8G2               | 9200          | 23                 | 31N      | 101W  | Roche Mountain       | 6L12          | 9800               | 15       | 48N  | 75W  |
| Robbs Park                        | 10160             | 10000         | 33                 | 38N      | 102W  | 5L13                 | 8740          | 15                 | 48N      | 75W  |      |
| Yellow Creek                      | 9F15              | 8800          | 27                 | 41N      | 101W  | 5L14                 | 8740          | 23                 | 48N      | 75W  |      |
| Little Warm                       | 9F16              | 8800          | 24                 | 41N      | 101W  | Crow Creek           | 5L15          | 9020               | 23       | 48N  | 75W  |
| Sheridan R.S.                     | 9F17              | 7200          | 42N                | 109W     | 5L16  | North Platte         | 6H3           | 9120               | 17       | 48N  | 75W  |
| T-Cross Ranch                     | 9F18              | 8000          | 1                  | 43N      | 107W  | 6H4                  | 9280          | 21                 | 48N      | 75W  |      |
| Togetoe Pass                      | 10F9*             | 9380          | 28                 | 44N      | 110W  | Albany               | 6H2*          | 10280              | 9        | 48N  | 75W  |
| Popo Agie River                   | 8G2               | 9200          | 23                 | 31N      | 101W  | Arapaho Lake         | 5L15          | 8740               | 23       | 48N  | 75W  |
| Blue Spring Camp                  | 9E5*              | 8700          | 22                 | 34N      | 101W  | B48 South c.         | 5L15          | 8600               | 33       | 48N  | 75W  |
| Marquette Creek                   | 9E6*              | 8700          | 24                 | 34N      | 101W  | Bottle Creek         | 6H8           | 8700               | 13       | 48N  | 75W  |
| Horsetail Rock                    | 9E7               | 8700          | 24                 | 34N      | 101W  | Boxelder             | 5G1           | 7800               | 19       | 48N  | 75W  |
| South Passade                     | 9E11              | 8700          | 13                 | 30N      | 101W  | Buck Creek           | 5G3           | 7800               | 8        | 48N  | 75W  |
| South Passade                     | 9E12              | 9060          | 13                 | 30N      | 101W  | Cameron Pass c.      | 5L11          | 11850              | 2        | 48N  | 75W  |
| South Passade                     | 9F11*             | 8700          | 26                 | 31N      | 101W  | Casper, Wyo.         | 6E3           | 9780               | 21       | 48N  | 75W  |
| South Passade                     | 8G7               | 8700          | 42°41'             | 109S     | 109S  | Chubs                | 5L12P         | 9000               | 6        | 48N  | 75W  |
| Transom Creek                     | 9E13*             | 8700          | 26                 | 31N      | 101W  | Columbus Lake c.     | 6L13*         | 9300               | 21       | 48N  | 75W  |
| Owl Creek                         | 8F1               | 8750          | 29                 | 43N      | 101W  | Deep Lakes           | 6H17          | 10500              | 32       | 48N  | 75W  |
| Elk River                         | 8F1               | 8750          | 29                 | 43N      | 101W  | Elk River c.         | 6H12P         | 8700               | 6        | 48N  | 75W  |
| Greybull River                    | 9G3*              | 10100         | 22                 | 34N      | 101W  | Fox Creek            | 5L13*         | 10000              | 35       | 48N  | 75W  |
| Timber Creek                      | 9E3P              | 7500          | 23                 | 47N      | 103W  | Globe                | 5L14          | 7750               | 24       | 48N  | 75W  |
| Shoshone River                    | 7E9P              | 7050          | 10                 | 50N      | 103W  | Hoss Lake            | 6H16          | 9800               | 27       | 48N  | 75W  |
| Carter Mountain                   | 7E9P              | 7050          | 10                 | 50N      | 103W  | North Barrett Creek  | 6H16          | 9800               | 27       | 48N  | 75W  |
| Medicine Lodge Lakes              | 9E5*              | 6840          | 42°29'             | 109S     | 109S  | North French Creek   | 6H20          | 10130              | 27       | 48N  | 75W  |
| Marquette Creek                   | 9E6*              | 8700          | 10                 | 50N      | 103W  | North French Creek   | 6H20          | 10130              | 27       | 48N  | 75W  |
| Sylvan Pass                       | 9F18A             | 7000          | 42°29'             | 109S     | 109S  | North French Creek   | 6H20          | 10130              | 27       | 48N  | 75W  |
| Young's Peak                      | 9F18A             | 8700          | 42°29'             | 109S     | 109S  | North French Creek   | 6H20          | 10130              | 27       | 48N  | 75W  |
| Bear Trap                         | 10F5*             | 7000          | 42°29'             | 109S     | 109S  | North French Creek   | 6H20          | 10130              | 27       | 48N  | 75W  |
| Cold Springs Camp                 | 7E25              | 8800          | 2                  | 51N      | 104W  | North French Creek   | 6H20          | 10130              | 27       | 48N  | 75W  |
| Radde Gopher                      | 7E25              | 9200          | 13                 | 51N      | 104W  | North French Creek   | 6H20          | 10130              | 27       | 48N  | 75W  |
| Radde Gopher                      | 7E25              | 9200          | 13                 | 51N      | 104W  | North French Creek   | 6H20          | 10130              | 27       | 48N  | 75W  |
| Donion Gulch                      | 7E27P             | 8700          | 10                 | 50N      | 104W  | North French Creek   | 6H20          | 10130              | 27       | 48N  | 75W  |
| Pocatello River Pass              | 7E25              | 9080          | 6                  | 48N      | 85W   | North French Creek   | 6E4           | 5560               | 8        | 48N  | 62W  |
| Troll R.S.                        | 7E25              | 8500          | 30                 | 49N      | 85W   | Reuter Canyon        | 4E3           | 6280               | 33       | 51N  | 63W  |
| West Tensleep Lake                | 7E26              | 9100          | 33                 | 50N      | 85W   | South Brush Creek    | 4E3P          | 8440               | 28       | 48N  | 63W  |
| She'll Creek                      | 7E27*             | 9380          | 29                 | 56N      | 91W   | Upper Spafford sd.   | 6H9*          | 9250               | 23       | 48N  | 85W  |
| Bald Mountain                     | 7E30              | 8660          | 19                 | 56N      | 91W   | Willow Creek Pass c. | 6L25          | 9000               | 1        | 48N  | 75W  |
| Medicine Wheel                    | 7E30              | 9200          | 18                 | 53N      | 91W   | Warren Peak          | 4ELP          | 6520               | 20       | 52N  | 63W  |
| Beaver-Tongue Divide              | 7E30              | 9200          | 10                 | 50N      | 85W   | Cheyenne River       | 6H9*          | 9080               | 21       | 53N  | 62W  |
| Canardine Pass                    | 7E31              | 9200          | 10                 | 50N      | 85W   | Bear Lodge Divide    | 4EP           | 6800               | 20       | 53N  | 62W  |
| Sniper Creek                      | 7E31              | 9200          | 44°30'             | 109S     | 109S  | Blind Bull Summit    | 1002*         | 6620               | 21       | 53N  | 62W  |
| Big Sandy Openia                  | 7E31              | 9200          | 44°30'             | 109S     | 109S  | East Rim Divide      | 1002*         | 6620               | 22       | 53N  | 62W  |
| Big Sandy Openia                  | 7E31              | 9200          | 44°30'             | 109S     | 109S  | Mount Tom            | 9923P         | 7930               | 32       | 49N  | 62W  |
| Rock Creek                        | 7E31              | 9200          | 44°30'             | 109S     | 109S  | Reindeer Park G.S.   | 1002*         | 9400               | 49°00'   | 109S | 109S |
| Gros Ventre                       | 7E31              | 9200          | 44°30'             | 109S     | 109S  | Rosie's Ventre       | 1002*         | 8750               | 35       | 40N  | 111W |
| Kendall R.S.                      | 10F15             | 7740          | 23                 | 38N      | 111W  | Rosie's Ventre       | 1002*         | 8740               | 14       | 48N  | 111W |
| Lonis Park                        | 10F16             | 8240          | 14                 | 38N      | 111W  | Salmon River         | 1002*         | 8740               | 14       | 48N  | 111W |
| New Lake                          | 9F16              | 8340          | 11                 | 38N      | 111W  | South Fork           | 1002*         | 8740               | 14       | 48N  | 111W |
| Pointe Creek                      | 10F17             | 8380          | 11                 | 38N      | 111W  | South Fork           | 1002*         | 8740               | 14       | 48N  | 111W |
| Rocky Creek                       | 10F18             | 8380          | 11                 | 38N      | 111W  | South Fork           | 1002*         | 8740               | 14       | 48N  | 111W |
| Rocky Creek                       | 10F19             | 8380          | 11                 | 38N      | 111W  | South Fork           | 1002*         | 8740               | 14       | 48N  | 111W |
| Rocky Creek                       | 10F20             | 8380          | 11                 | 38N      | 111W  | South Fork           | 1002*         | 8740               | 14       | 48N  | 111W |
| Rocky Creek                       | 10F21             | 8380          | 11                 | 38N      | 111W  | South Fork           | 1002*         | 8740               | 14       | 48N  | 111W |
| Rocky Creek                       | 10F22             | 8380          | 11                 | 38N      | 111W  | South Fork           | 1002*         | 8740               | 14       | 48N  | 111W |
| Rocky Creek                       | 10F23             | 8380          | 11                 | 38N      | 111W  | South Fork           | 1002*         | 8740               | 14       | 48N  | 111W |
| Rocky Creek                       | 10F24             | 8380          | 11                 | 38N      | 111W  | South Fork           | 1002*         | 8740               | 14       | 48N  | 111W |
| Rocky Creek                       | 10F25             | 8380          | 11                 | 38N      | 111W  | South Fork           | 1002*         | 8740               | 14       | 48N  | 111W |
| Rocky Creek                       | 10F26             | 8380          | 11                 | 38N      | 111W  | South Fork           | 1002*         | 8740               | 14       | 48N  | 111W |
| Rocky Creek                       | 10F27             | 8380          | 11                 | 38N      | 111W  | South Fork           | 1002*         | 8740               | 14       | 48N  | 111W |
| Rocky Creek                       | 10F28             | 8380          | 11                 | 38N      | 111W  | South Fork           | 1002*         | 8740               | 14       | 48N  | 111W |
| Rocky Creek                       | 10F29             | 8380          | 11                 | 38N      | 111W  | South Fork           | 1002*         | 8740               | 14       | 48N  | 111W |
| Rocky Creek                       | 10F30             | 8380          | 11                 | 38N      | 111W  | South Fork           | 1002*         | 8740               | 14       | 48N  | 111W |
| Rocky Creek                       | 10F31             | 8380          | 11                 | 38N      | 111W  | South Fork           | 1002*         | 8740               | 14       | 48N  | 111W |
| Rocky Creek                       | 10F32             | 8380          | 11                 | 38N      | 111W  | South Fork           | 1002*         | 8740               | 14       | 48N  | 111W |
| Rocky Creek                       | 10F33             | 8380          | 11                 | 38N      | 111W  | South Fork           | 1002*         | 8740               | 14       | 48N  | 111W |
| Rocky Creek                       | 10F34             | 8380          | 11                 | 38N      | 111W  | South Fork           | 1002*         | 8740               | 14       | 48N  | 111W |
| Rocky Creek                       | 10F35             | 8380          | 11                 | 38N      | 111W  | South Fork           | 1002*         | 8740               | 14       | 48N  | 111W |
| Rocky Creek                       | 10F36             | 8380          | 11                 | 38N      | 111W  | South Fork           | 1002*         | 8740               | 14       | 48N  | 111W |
| Rocky Creek                       | 10F37             | 8380          | 11                 | 38N      | 111W  | South Fork           | 1002*         | 8740               | 14       | 48N  | 111W |
| Rocky Creek                       | 10F38             | 8380          | 11                 | 38N      | 111W  | South Fork           | 1002*         | 8740               | 14       | 48N  | 111W |
| Rocky Creek                       | 10F39             | 8380          | 11                 | 38N      | 111W  | South Fork           | 1002*         | 8740               | 14       | 48N  | 111W |
| Rocky Creek                       | 10F40             | 8380          | 11                 | 38N      | 111W  | South Fork           | 1002*         | 8740               | 14       | 48N  | 111W |
| Rocky Creek                       | 10F41             | 8380          | 11                 | 38N      | 111W  | South Fork           | 1002*         | 8740               | 14       | 48N  | 111W |
| Rocky Creek                       | 10F42             | 8380          | 11                 | 38N      | 111W  | South Fork           | 1002*         | 8740               | 14       | 48N  | 111W |
| Rocky Creek                       | 10F43             | 8380          | 11                 | 38N      | 111W  | South Fork           | 1002*         | 8740               | 14       | 48N  | 111W |
| Rocky Creek                       | 10F44             | 8380          | 11                 | 38N      | 111W  | South Fork           | 1002*         | 8740               | 14       | 48N  | 111W |
| Rocky Creek                       | 10F45             | 8380          | 11                 | 38N      | 111W  | South Fork           | 1002*         | 8740               | 14       | 48N  | 111W |
| Rocky Creek                       | 10F46             | 8380          | 11                 | 38N      | 111W  | South Fork           | 1002*         | 8740               | 14       | 48N  | 111W |
| Rocky Creek                       | 10F47             | 8380          | 11                 | 38N      | 111W  | South Fork           | 1002*         | 8740               | 14       | 48N  | 111W |
| Rocky Creek                       | 10F48             | 8380          | 11                 | 38N      | 111W  | South Fork           | 1002*         | 8740               | 14       | 48N  | 111W |
| Rocky Creek                       | 10F49             | 8380          | 11                 | 38N      | 111W  | South Fork           | 1002*         | 8740               | 14       | 48N  | 111W |
| Rocky Creek                       | 10F50             | 8380          | 11                 | 38N      | 111W  | South Fork           | 1002*         | 8740               | 14       | 48N  | 111W |
| Rocky Creek                       | 10F51             | 8380          | 11                 | 38N      | 111W  | South Fork           | 1002*         | 8740               | 14       | 48N  | 111W |
| Rocky Creek                       | 10F52             | 8380          | 11                 | 38N      | 111W  | South Fork           | 1002*         | 8740               | 14       | 48N  | 111W |
| Rocky Creek                       | 10F53             | 8380          | 11                 | 38N      | 111W  | South Fork           | 1002*         | 8740               | 14       | 48N  | 111W |
| Rocky Creek                       | 1                 |               |                    |          |       |                      |               |                    |          |      |      |

# Agencies Cooperating in Wyoming Snow Surveys

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Greybull Valley Irrigation District  
Wheatland Irrigation District

### Conservation Districts

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